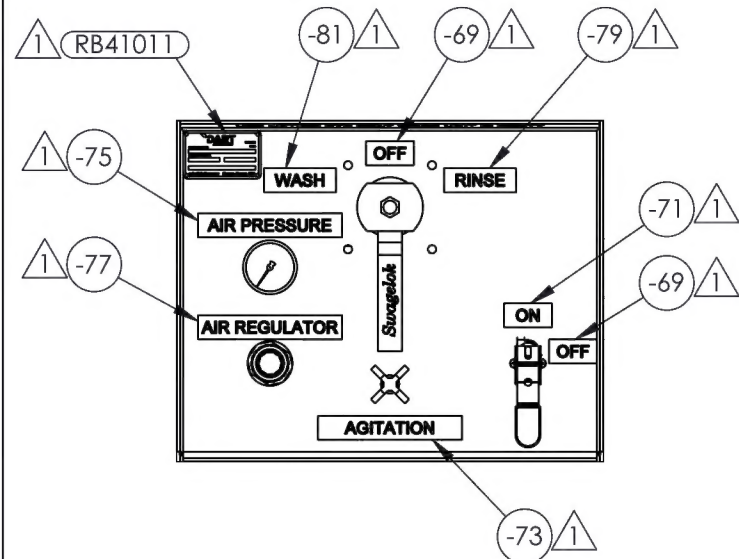
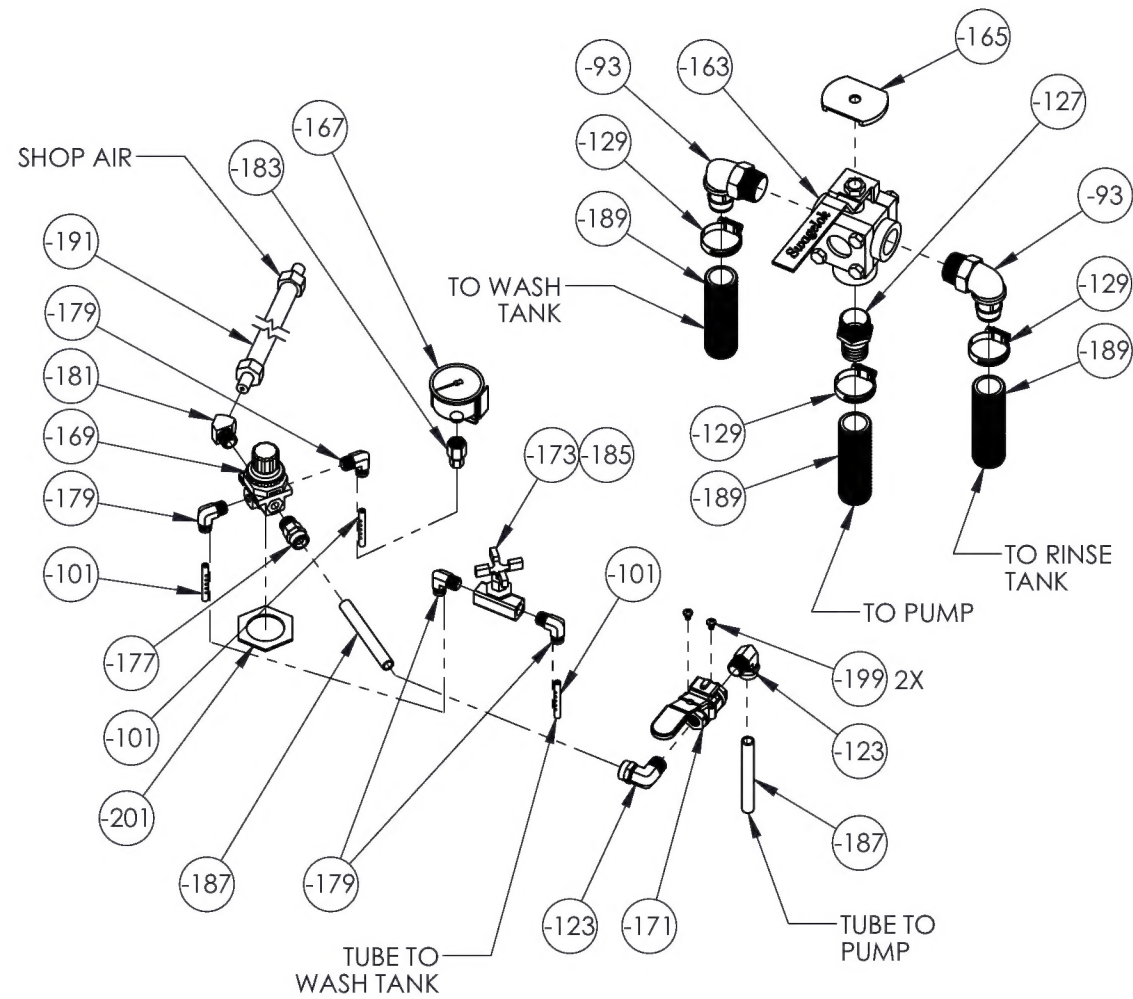
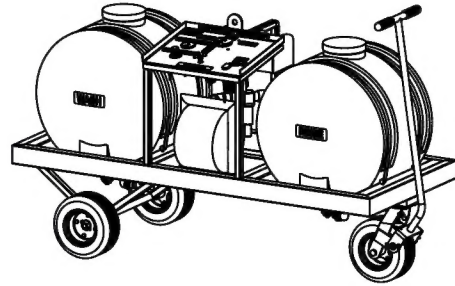


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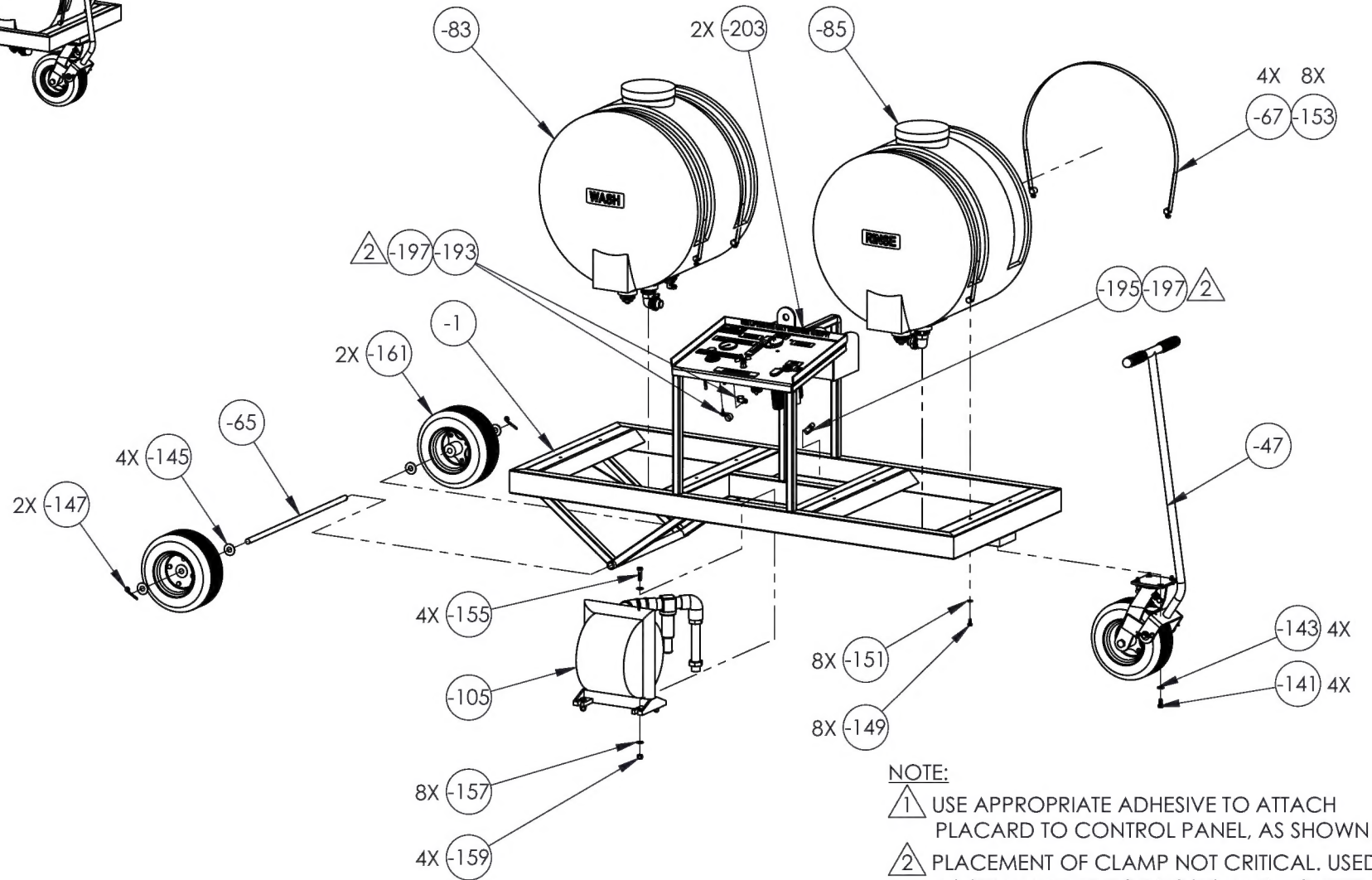


PANEL DETAIL
SCALE: 1:8




PLUMBING DETAIL
SCALE 1:8

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	15-0339	UPDATED TO NEW DRAFTING STANDARDS.	10/27/2015	DPD	JAG
3	16-0144	<p>-1 ADDED DIMS 10.88, 12.50, -11, -27, -37, -39, CH'D MAT'L WAS A36 IS A36/1018/1020 HR. -29 ADDED DIM .06, -39 CH'D DIMS WAS Ø2.000 IS Ø2.100, WAS Ø.750 IS Ø.770. ADDED DIMS 2X Ø.28, 4.61, 3.93, 14.38, 15.05, 2X 18". -47 ADDED -205 QTY 2. -57 CH'D DIMS WAS R.25 IS R2.5, WAS 42° IS 42° ±2°. -59 ADDED WELD SYMBOLS. -65 CH'D DIMS WAS 29.00 IS 24.55, WAS 28.55 IS 24.10. -67 ADDED SPOT WELD NOTE, CH'D DIMS WAS Ø.63 IS 2X Ø.63, WAS 5.62 MIN IS 2X 5.62 MIN, WAS .38 IX 2X .38. -69, -71, -73, -75, -77, -79, -81, -83, -203 CH'D TOLERANCES WAS .005 IS .10, WAS .01 IS .03. -31, -33, -35, -41, -51, -55, -61, -63 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR. -83 CH'D LENGTH OF HOSE WAS 2FT EACH IS 8" EACH, ADDED CLOSE ENDS & DRILL HOLES NOTE. -103 DELETED. -105 REMOVED -125. -121 ADDED DRAWING. -123 ADDED QTY 2 TO BOM. CH'D B/O REF WAS #50915K726 IS #5053K67. -125 DELETED. -129 CH'D B/O REF WAS #6541K57 IS #5574K16. -161 CH'D B/O REF WAS #2G331 IS #1NWU5. -165 CH'D B/O REF WAS #MS-PMK-S65 IS #MS-PMK-65. -169 CH'D B/O REF WAS [AMFLO #4125A-99] IS AMFLO #4125A-99 (PACIFIC RUBBER). -171 CH'D B/O REF WAS #76-101-01 IS #76-102-01. -175 QTY 2 REPLACED WITH -123. -177 CH'D B/O REF WAS #50915K327 IS #5053K55. -179 CH'D B/O REF WAS #50915K715 IS #5053K62. -191 ADDED DRAWING. -201 CH'D B/O REF WAS #4071A-99 IS [AMF4778]. -205 ADDED QTY 2 TO ASSY -47.</p>	9/8/2016	DPD	SM



NOTE:

- 1 USE APPROPRIATE ADHESIVE TO ATTACH PLACARD TO CONTROL PANEL, AS SHOWN.
- 2 PLACEMENT OF CLAMP NOT CRITICAL. USED AS STRAIN RELIEF FOR HOSES AND HOLDER FOR WASH WAND.

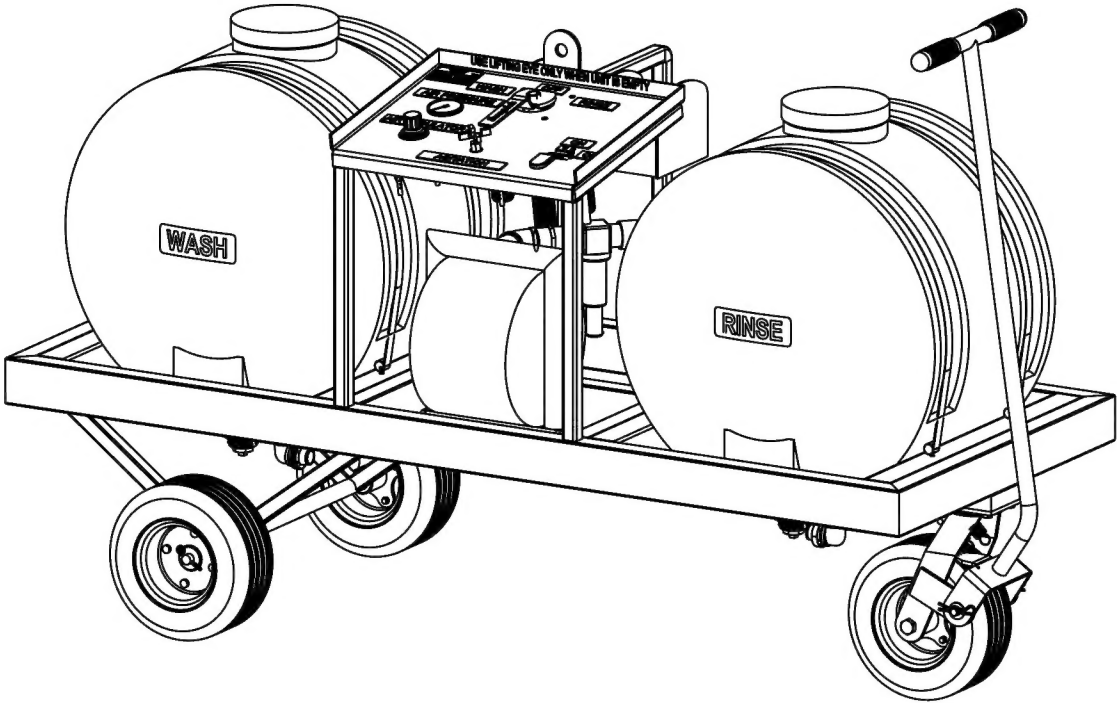
			
TITLE			
3000 WASH SYSTEM			
DWG NO.			REV
HT-3000-CW			3
MAT'L		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± .5°	
		.X ± .1 SURFACES = 125/√	
DRAWN BY:		1. BREAK ALL SHARP EDGES	
DUERFELDT		.015 x .45° OR .015R	
CHECKED:		2. DIMENSIONAL LIMITS APPLY	
CLOUGH		AFTER PLATING	
OPPS APPR:		3. INTERPRET DIM AND TOL PER	
ANDERSON		ASME Y14.5M-2009	
QA APPR:		USED ON MODEL	
LINDSAY			
APPROVED:			
GILBERT			
SCALE	1:20	DATE	10/22/2014
		SHEET 1 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-123 ADDED QTY 2 TO BOM. CH'D B/O REF WAS #50915K726 IS #5053K67. -125 DELETED. -129 CH'D B/O REF WAS #6541K57 IS #5574K16.	9/8/2016	DPD	SM

-105 QTY	-85 QTY	-83 QTY	-59 QTY	-49 QTY	-47 QTY	-1 QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
						X		-1	1	FRAME WELDMENT			4 & 5
						2		-3		SIDE TUBE	STEEL TUBE		6
						2		-5		END TUBE	STEEL TUBE		7
						2		-7		MIDDLE TUBE	STEEL TUBE		8
						1		-9		CENTER TUBE	STEEL TUBE		9
						4		-11		OUTTER PLATE	A36/1018/1020 HR		10
						1		-13		AXLE TUBE	STEEL TUBE		11
						4		-15		AXLE CROSS BRACE	STEEL TUBE		12
						1		-17		OUTSIDE UPRIGHT	STEEL TUBE		13
						1		-19		TOP HORIZONTAL BAR	STEEL TUBE		14
						1		-21		MIDDLE HORIZONTAL BRACE	STEEL TUBE		15
						2		-23		RIGHT UPRIGHT	STEEL TUBE		16
						1		-25		MIDDLE UPRIGHT	STEEL TUBE		17
						4		-27		RETAINER, HOSE REEL	A36/1018/1020 HR		18
						2		-29		HOSE REEL	STEEL TUBE		19
						1		-31		LIFTING EYE	1018/1020 CR		20
						2		-33		GUSSET	1018/1020 CR		21
						1		-35		CASTER MOUNT	1018/1020 CR		22
						2		-37		BRACE	A36/1018/1020 HR		23
						1		-39		CONTROL PANEL	A36/1018/1020 HR		24
						1		-41		CENTER PLATE	1018/1020 CR		25
						2		-43		FRONT/BACK PANEL SUPPORT	STEEL TUBE		26
						2		-45		SIDE PANEL SUPPORT	STEEL TUBE		27
					X			-47	1	STEERING ASSEMBLY			28
				X	1			-49		HANDLE WELDMENT			29
				1				-51		HANDLE MOUNT	1018/1020 CR		30
				1				-53		HANDLE	STEEL TUBE		31
				1				-55		BRAKE	1018/1020 CR		32
				1				-57		HANDLE UPRIGHT	STEEL TUBE		33
			X		1			-59		CASTER WELDMENT			34
			1					-61		SPRING RETAINER	1018/1020 CR		35
			2					-63		CASTER HANDLE MOUNT	1018/1020 CR		36
								-65	1	AXLE	303/304		37
								-67	4	TANK BAND	S.S.		38
								-69	2	PLACARD OFF	PLASTIC		39
								-71	1	PLACARD ON	PLASTIC		40
								-73	1	PLACARD AGITATION	PLASTIC		41
								-75	1	PLACARD AIR PRESSURE	PLASTIC		42
								-77	1	PLACARD AIR REGULATOR	PLASTIC		43
								-79	1	PLACARD RINSE	PLASTIC		44
								-81	1	PLACARD WASH	PLASTIC		45
		X						-83	1	WASH TANK ASSEMBLY			46
	X							-85	1	RINSE TANK ASSEMBLY			47
		1						-87		30 GALLON TANK	PLASTIC	(NORWESCO 30 GALLON APPLICATOR TANK) MODIFIED	48
	1							-89		30 GALLON TANK	PLASTIC	(NORWESCO 30 GALLON APPLICATOR TANK) MODIFIED	49
	2	3					B/O	-91		BULKHEAD FITTING	PVC	Ø1 NPT FEMALE X FEMALE X 2-7/8 (MCMASTER-CARR #36895K163)	46 & 47
	1	1					B/O	-93	2	90° ELBOW	NYLON	Ø1 TUBE X Ø NPT, 90° (MCMASTER-CARR #2974K175)	1, 46, 47
	1	3					B/O	-95		REDUCER	BRASS	Ø1 NPT MALE X Ø1/4 NPT FEMALE (MCMASTER-CARR #4429K461)	46 & 47
	1	1					B/O	-97		SQUARE HEAD PLUG	BRASS	Ø1/4 NPT (MCMASTER-CARR #4429K312)	46 & 47
		1					B/O	-99		MALE BRANCH TEE	BRASS	Ø1/4 TUBE X Ø1/4 TUBE X Ø1/4 NPT (PACIFIC RUBBER #PAR 72PC-4-4)	46
		A/R					B/O	-101	A/R	Ø1/4 TUBING	POLYETHYLENE	Ø1/4 X 10 FT (PACIFIC RUBBER #KUR1/4POLY)	1 & 46
X								-105	1	PUMP ASSEMBLY			50
1							B/O	-107		DIAPHRAGM PUMP		(VERSA-MATIC #E1AP4F449C)	50
2							B/O	-109		NIPPLE Ø1		Ø1 PIPE SIZE X 1-1/2 (MCMASTER-CARR #44615K416)	50
1							B/O	-111		45° ELBOW	BRASS	Ø1 PIPE SIZE, 45° (MCMASTER-CARR #4429K265)	50
1							B/O	-113		FEMALE ADAPTER SLIP X FIPT	PVC	Ø1 PIPE SIZE, SLIP X FIPT (MCMASTER-CARR #4880K83)	50
2							B/O	-115		Ø1 PVC PIPE	PVC	Ø1" X 2, SCH 40 (JERRY'S #140PVC5)	50
1							B/O	-117		FILTER		(RUSCO #1-200SS-F)	50
1							B/O	-119		ELBOW	PVC	Ø1 PVC 90° ELBOW SLIP X FIPT (MCMASTER-CARR #4596K669)	50
1							B/O	-121		BLUE HOSE	PVC	15' GYIPIOVIC 3/4 BLUE 250 W/ 2 NWHMPT 12-12 BARB TO 3/4 (PACIFIC RUBBER)	51
1							B/O	-123	2	TUBE FITTING ELBOW	BRASS	Ø1/2 TUBE X 3/8 NPT, 90° (MCMASTER-CARR #5053K67)	1
1							B/O	-127	1	BARBED TUBE FITTING	NYLON	Ø1 TUBE X Ø1 NPT (MCMASTER-CARR #5372K135)	1 & 50
1	1	1					B/O	-129	3	HOSE CLAMP	S.S.	Ø1 - Ø1-5/8 I.D. (MCMASTER-CARR #5574K16)	1, 46, 47, 50

BOM CONTINUED ON NEXT PAGE.



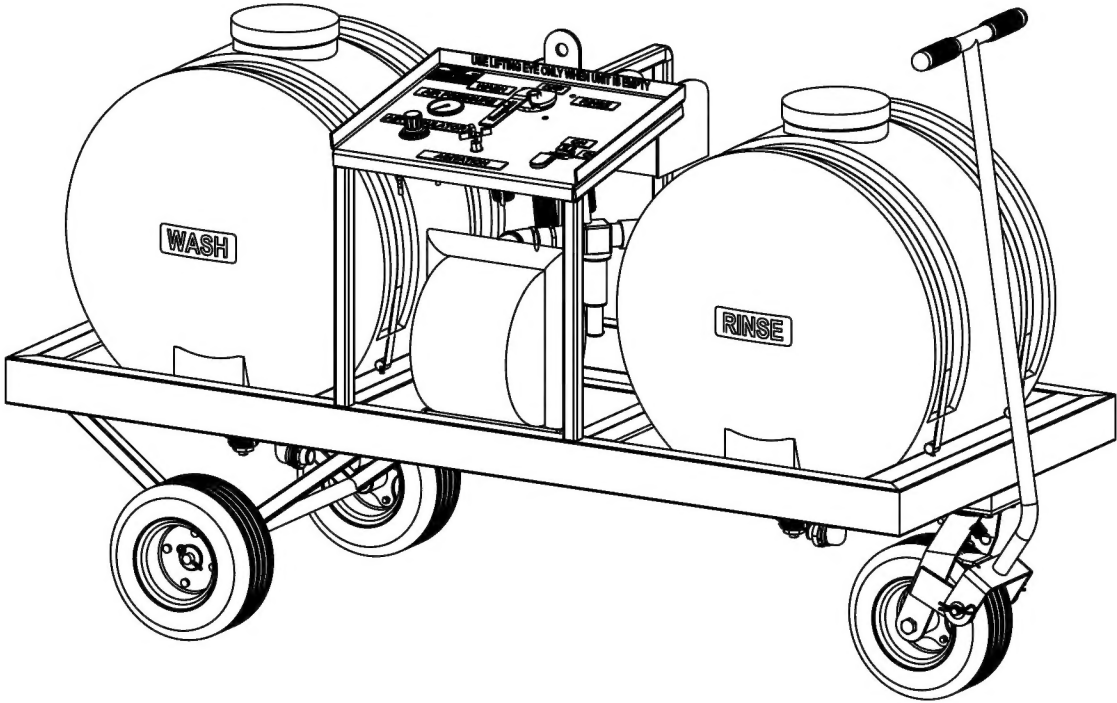
DART AEROSPACE			
TITLE 3000 WASH SYSTEM			
DWG NO. HT-3000-CW			REV 3
MAT'L HEAT TREAT FINISH SPEC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125/✓	
DRAWN BY: DUERFELDT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: CLOUGH		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT			
SCALE 1:12	DATE 10/22/2014	SHEET 2 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	- 161 CH'D B/O REF WAS #2G331 IS #1NWU5. - 165 CH'D B/O REF WAS #MS-PMK-S65 IS #MS-PMK-65. - 169 CH/D B/O REF WAS (AMFLO #4125A-99) IS AMFLO #4125A-99 (PACIFIC RUBBER). - 171 CH'D B/O REF WAS #76-101-01 IS #76-102-01. - 175 QTY 2 REPLACED WITH -123. - 177 CH'D B/O REF WAS #50915K327 IS #5053K55. - 179 CH'D B/O REF WAS #50915K715 IS #5053K62. - 201 CH'D B/O REF WAS #4071A-99 IS #AMF4778). - 205 ADDED QTY 2 TO ASSY -47.	9/8/2016	DPD	SM

CONTINUED FROM PREVIOUS PAGE.

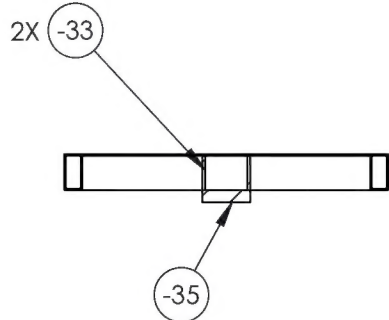
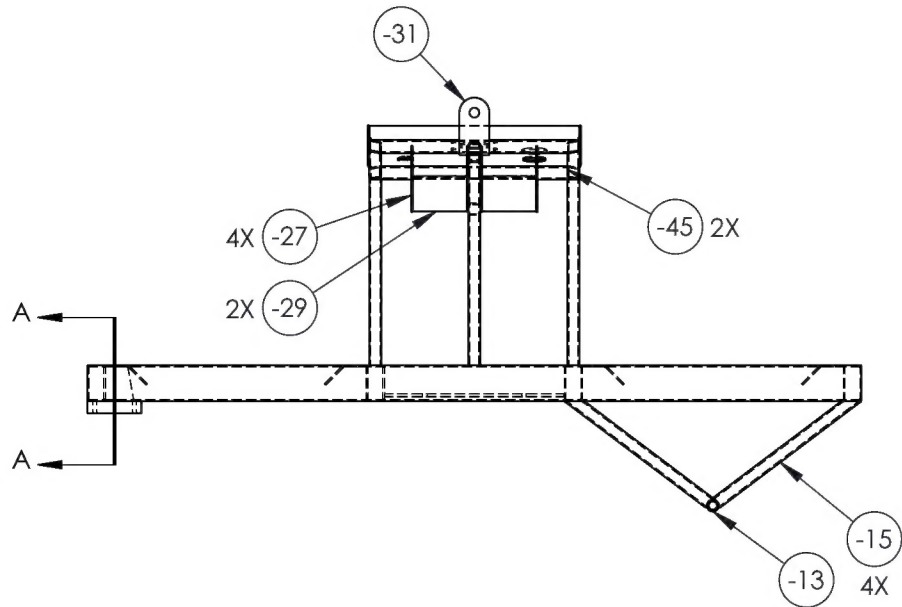
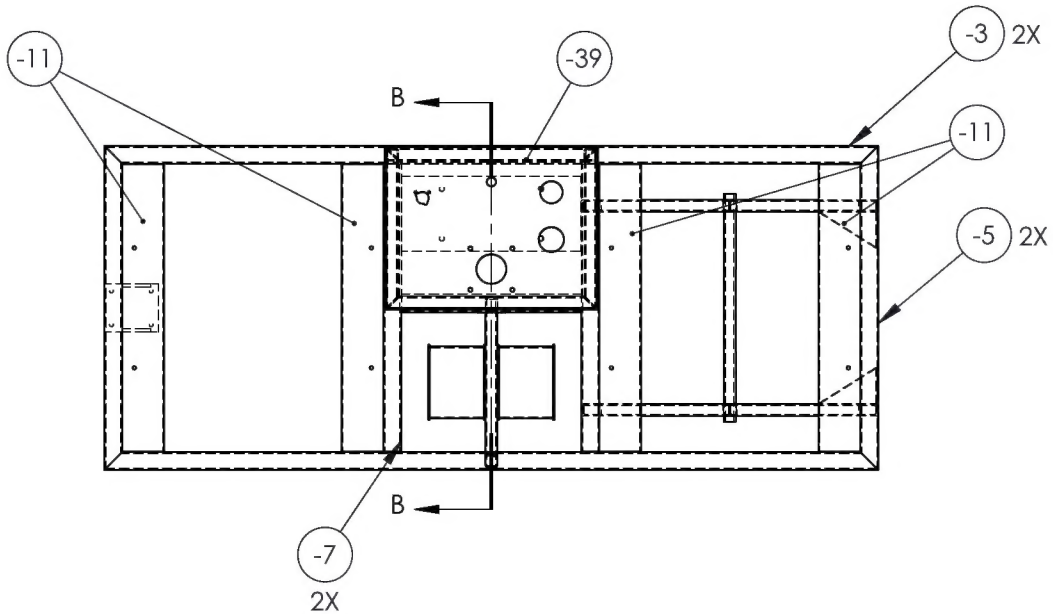
-105 QTY	-85 QTY	-83 QTY	-59 QTY	-49 QTY	-47 QTY	-1 QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
						1	B/O	-131		CORNER	STEEL	14 GA. X 1 IN. SQ. TUBE (SHARPE PRODUCTS #SQC100)	3
		1					B/O	-133		SWIVEL CASTER		Ø10 X 3-3/4 X 13 (GRAINGER #3G149)	34
					2		B/O	-135		CLEVIS PIN	S.S.	Ø1/2 X 1, 3/4 USABLE (MCMaster-CARR #92401A703)	28
				4			B/O	-137		WASHER	S.S.	Ø1/2 (MCMaster-CARR #91950A033)	28
				2			B/O	-139		SPRING	STEEL	Ø.091 WIRE X Ø7/8 O.D. X 3-1/2 (MCMaster-CARR #9654K226)	28
							B/O	-141	4	CAP SCREW	STEEL	3/8-16 X 3/4 (MCMaster-CARR #94967A517)	1
							B/O	-143	4	WASHER	STEEL	Ø3/8 (MCMaster-CARR #97416A127)	1
							B/O	-145	4	WASHER	STEEL	Ø9/16 (MCMaster-CARR #90108A034)	1
							B/O	-147	2	COTTER PIN	STEEL	Ø5/32 X 1-1/2 (MCMaster -CARR #98338A493)	1
							B/O	-149	8	CAP SCREW	S.S.	1/4-20 X 5/8 (MCMaster-CARR #93190A539)	1
							B/O	-151	8	WASHER	S.S.	Ø1/4 (MCMaster-CARR #91950A029)	1
							B/O	-153	8	DOWEL NUT	STEEL	1/4 -20 X .786 (EUGENE FASTENER #JCD 14202010)	1
							B/O	-155	4	CAP SCREW	SS	3/8-16 X 1-3/8 (MCMaster-CARR #92245A627)	1
							B/O	-157	8	SAE WASHER	S.S.	Ø3/8 (MCMaster-CARR #91950A031)	1
							B/O	-159	4	LOCKNUT	S.S.	3/8-16 (MCMaster-CARR #90715A145)	1
							B/O	-161	2	TIRE		Ø10 X 2-1/4 (GRAINGER #1NWU5)	1
							B/O	-163	1	3 WAY BALL VALVE		(SWAGLOK #SS-65XTF16)	1
							B/O	-165	1	PANEL MOUNT KIT	STEEL	(SWAGLOK #MS-PMK-65)	1
							B/O	-167	1	PRESSURE GUAGE		160 PSI (PACIFIC RUBBER #PIC203L-204F)	1
							B/O	-169	1	AIR REGULATOR		AMFLO #4125A-99 (PACIFIC RUBBER)	1
							B/O	-171	1	ON/OFF VALVE	S.S.	(PARAMOUNT SUPPLY #76-102-01)	1
							B/O	-173	1	AGITATION VALVE	STEEL	(MOTION & FLOW CONTROL #MV400S)	1
							B/O	-177	1	STRAIGHT TUBE FITTING	BRASS	Ø1/2 TUBE X 3/8 NPT (MCMaster-CARR #5053K55)	1
		1					B/O	-179	4	TUBE FITTING ELBOW	BRASS	Ø1/4 TUBE X 1/4 NPT, 90° (MCMaster-CARR #5053K62)	1 & 46
							B/O	-181	1	45° ELBOW	BRASS	Ø3/8 NPT MALE X Ø3/8 NPT FEMALE, 45° (MCMaster-CARR #50785K83)	1
							B/O	-183	1	STRAIGHT FEMALE TUBE FITTING	BRASS	Ø1/4 TUBE X Ø1/4 NPT (MCMaster-CARR #50915K215)	1
							B/O	-185	1	AGITATION VALVE MOUNT KIT	STEEL	(MOTION & FLOW CONTROL #MVK4)	1
							B/O	-187	A/R	Ø1/2 TUBING	POLYETHYLENE	Ø1/2 X 5 FT (PACIFIC RUBBER #KUR1/2POLY)	1
							B/O	-189	3	Ø1 HOSE	PVC	BLUE PVC LOW TEMP SUCTION, 10 FT (PACIFIC RUBBER #KURBW100)	1
							B/O	-191	1	GREEN HOSE	PVC	15' GYPLIOVIC 1/2 GRN W/2 NWHMPT 8-6 (PACIFIC RUBBER)	52
							B/O	-193	2	LOOP CLAMP	STEEL	Ø3/4 X 1/2 (MCMaster-CARR #3225T46)	1
							B/O	-195	1	LOOP CLAMP	STEEL	Ø1 X 1/2 (MCMaster-CARR #3225T48)	1
							B/O	-197	3	SELF DRILLING SCREW	STEEL	10-24 X 3/4, #3 DRILL POINT (MCMaster-CARR #91324A551)	1
							B/O	-199	2	MACHINE SCREW	STEEL	10-24 X 5/16 (MCMaster-CARR #90272A239)	1
							B/O	-201	1	AIR REGULATOR MOUNT	STEEL	(AMFLO #4778)	1
							B/O	-203	2	DECAL	VINYL	SIGNS NOW	53
					2		B/O	-205		HANDLE GRIP	VINYL	FITS Ø1 O.D. X 4-1/2, BLACK (MCMaster-CARR #97045K51)	28
		1					B/O			WASH EMBLEM		HT-500-CWA-010P-70A	46
							B/O			RINSE EMBLEM		HT-500-CWA-010P-70B	47
							B/O		1	DART PLACARD	ALUMINUM	R841011	1



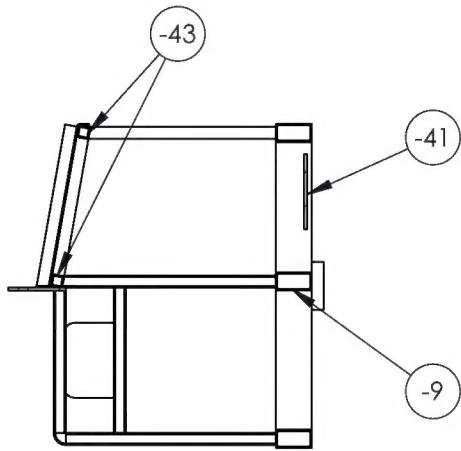
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TITLE 3000 WASH SYSTEM			
DWG NO. HT-3000-CW			REV 3
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125°✓		
HEAT TREAT			
FINISH			
SPEC			
DRAWN BY:			
CHECKED:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR:	ANDERSON		
QA APPR:	LINDSAY		
APPROVED:	GILBERT		
SCALE 1:12		DATE 10/22/2014	SHEET 3 OF 53

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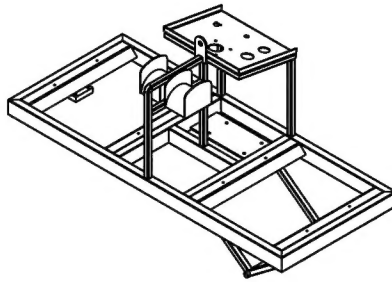
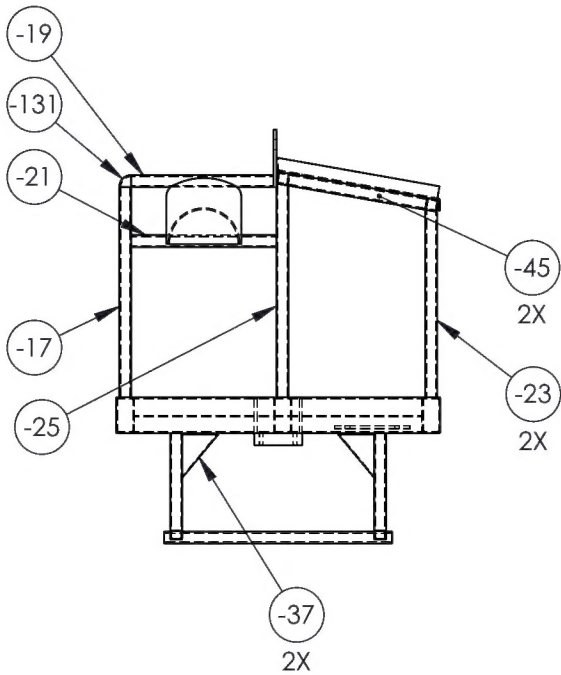
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



SECTION A-A



SECTION B-B



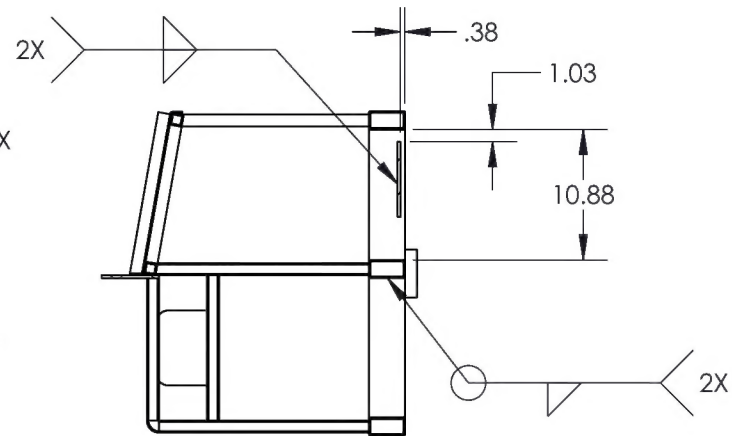
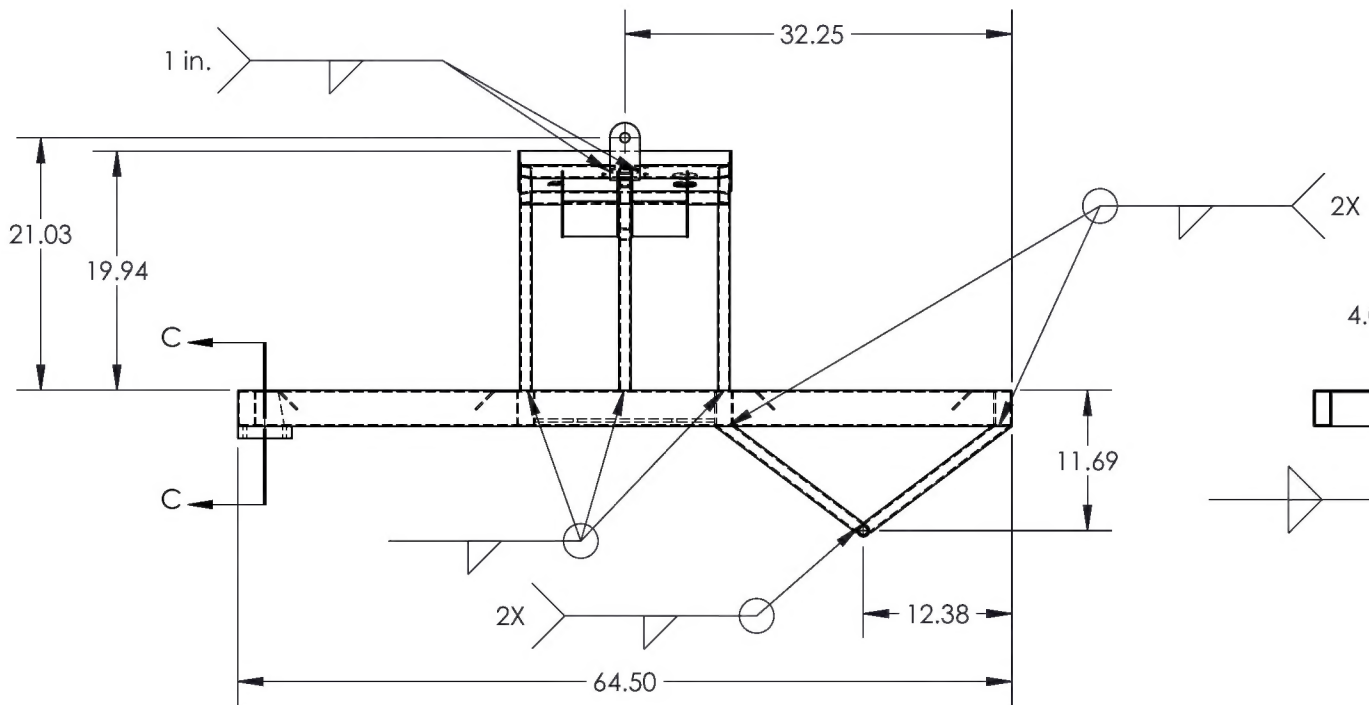
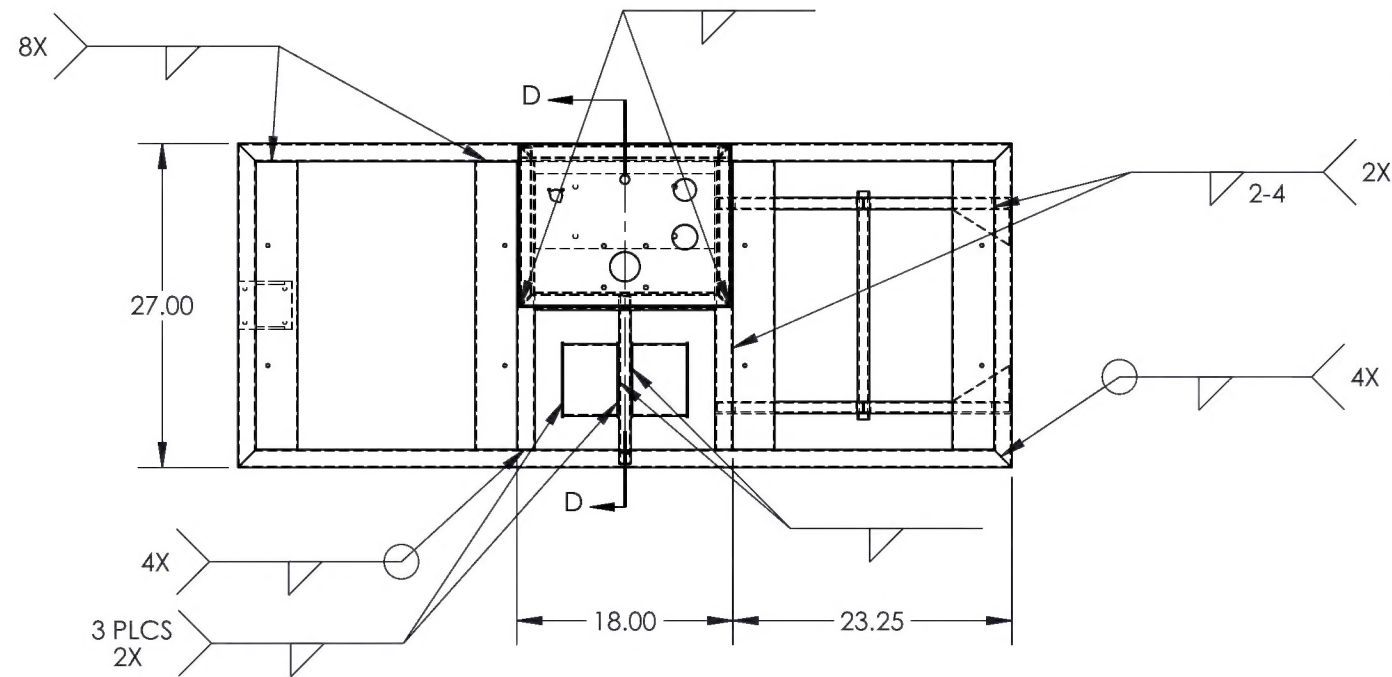
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FRAME WELDMENT

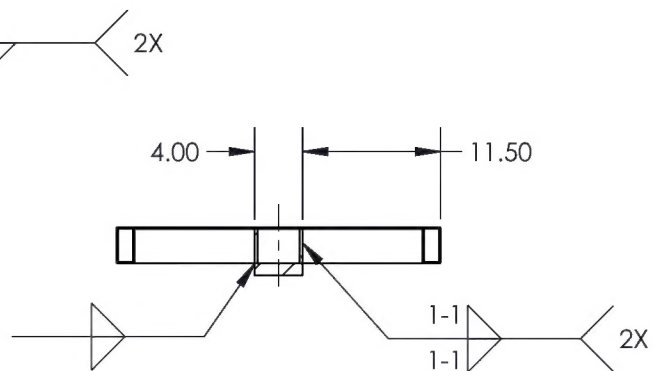
DART AEROSPACE			
TITLE 3000 WASH SYSTEM			
DWG NO. HT-3000-CW-1			REV 3
MAT'L HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUEFELDT		USED ON MODEL	
CHECKED: CLOUGH			
OPPS APPR: ANDERSON			
QA APPR: LINDSAY			
APPROVED: MACKOVJAK			
SCALE 1:16	DATE 10/23/2014	SHEET 4 OF 53	

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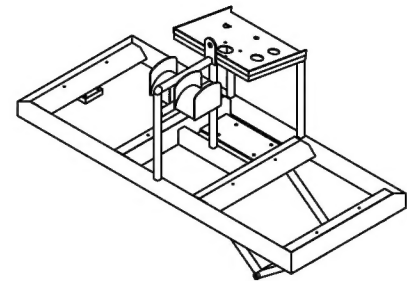
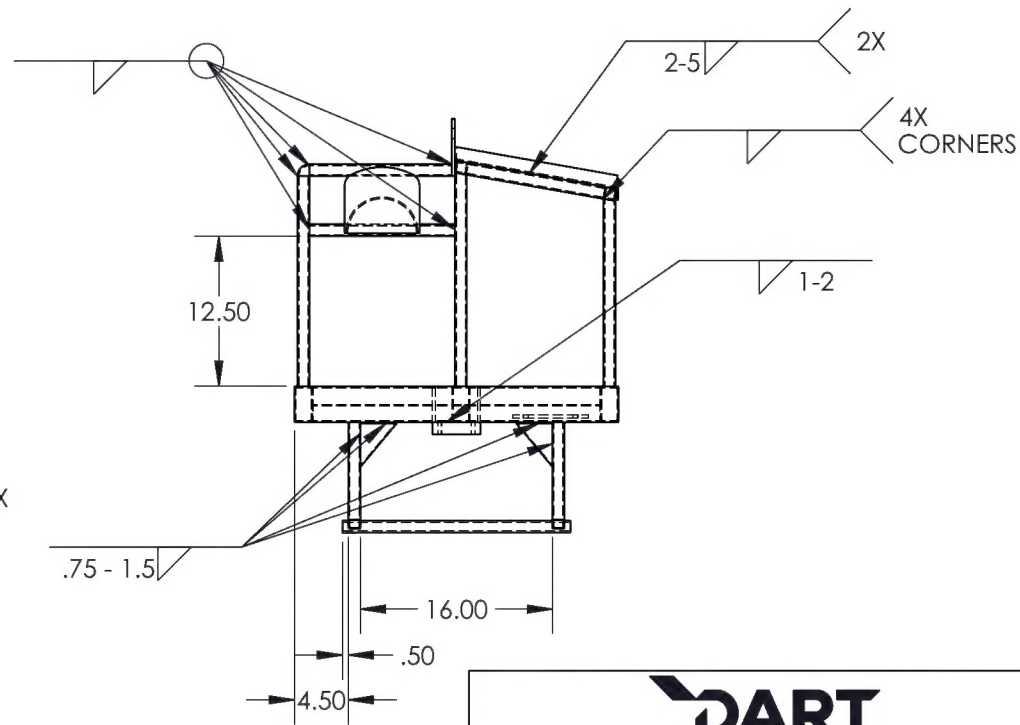
REVISIONS			DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION			
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SECTION D-D



SECTION C-C



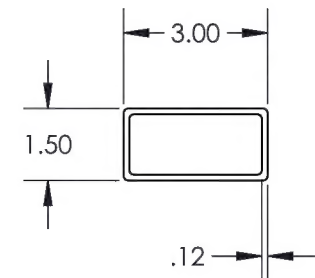
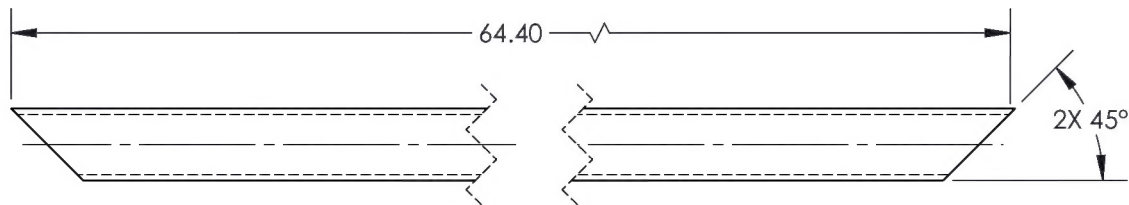
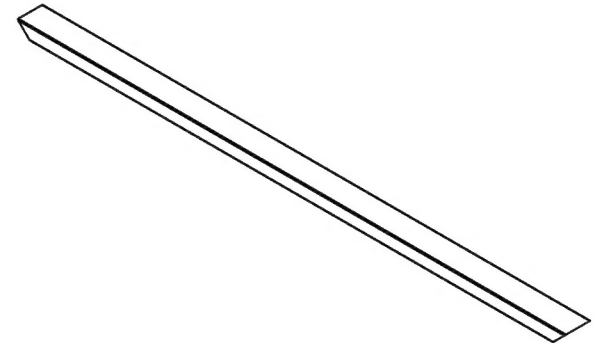
(1)

FRAME WELDMENT

DART AEROSPACE		
TITLE 3000 WASH SYSTEM		
DWG NO. HT-3000-CW-1		REV 3
MAT'L HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/
DRAWN BY: DUERFELDT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH		2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY		USED ON MODEL
APPROVED: MACKOVJAK		
SCALE 1:16	DATE 10/23/2014	SHEET 5 OF 53

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				APPROVED

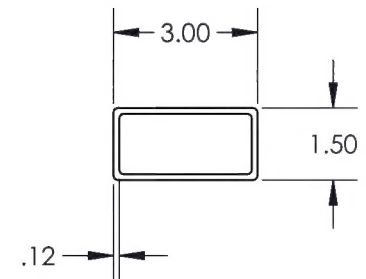
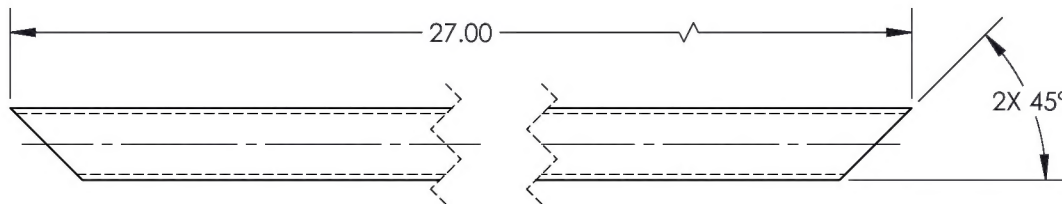
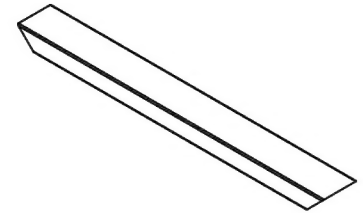


(-3)
SIDE TUBE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-3	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2014
	SHEET 6 OF 53

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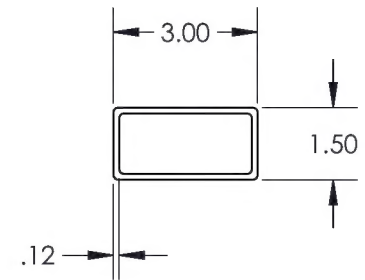
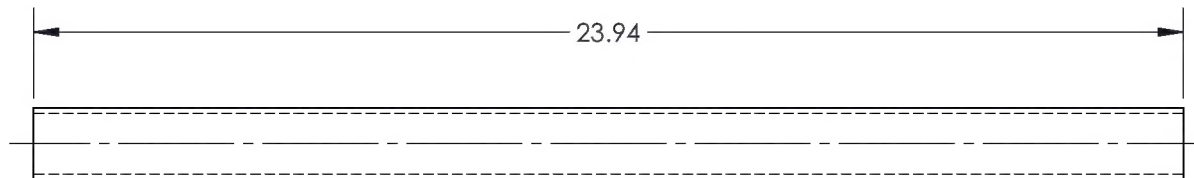
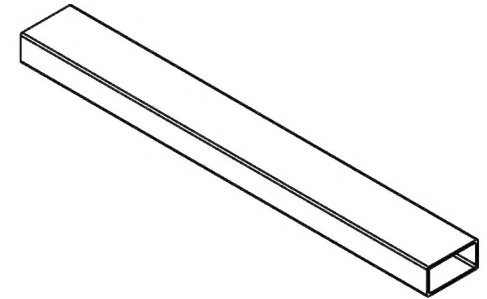


(5)
END TUBE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-5	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2014
	SHEET 7 OF 53

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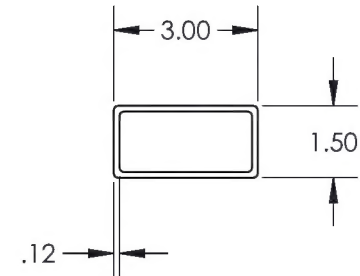
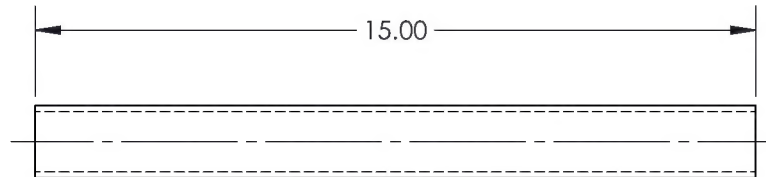
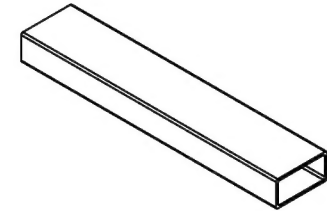


(-7)
MIDDLE TUBE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-7	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH SEE -1 WELDMENT	.XX ± .03 ANGLES ± 1°
SPEC	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	
SCALE 1:4	DATE 10/20/2014 SHEET 8 OF 53

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REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

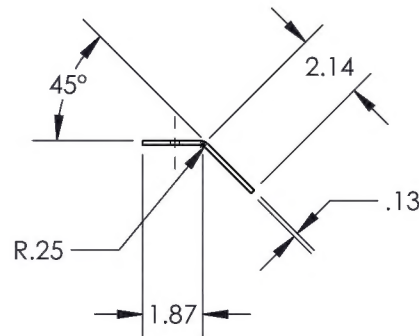
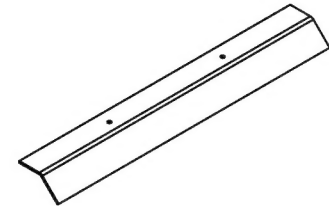
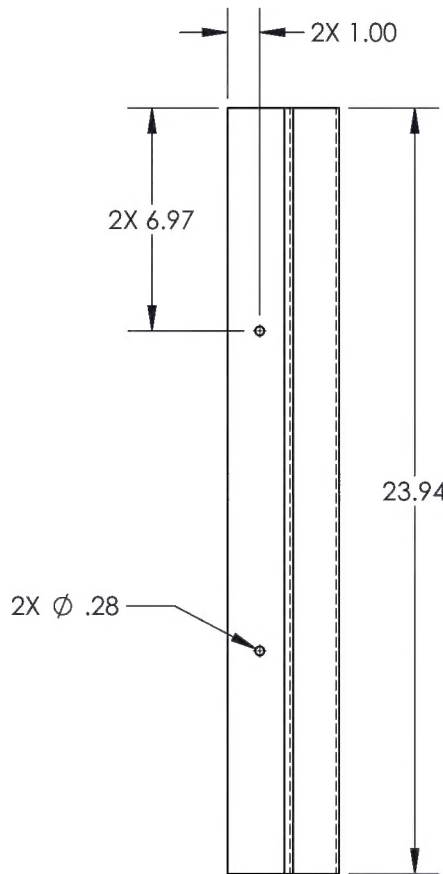
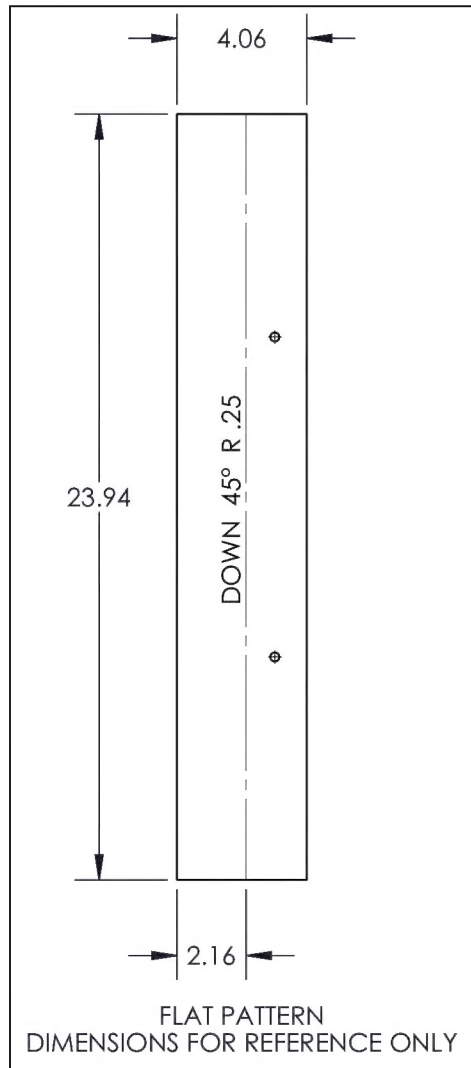


(-9)
CENTER TUBE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-9	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2014
	SHEET 9 OF 53

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REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
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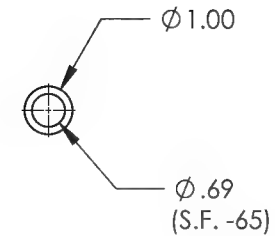
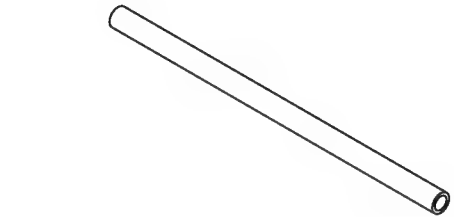
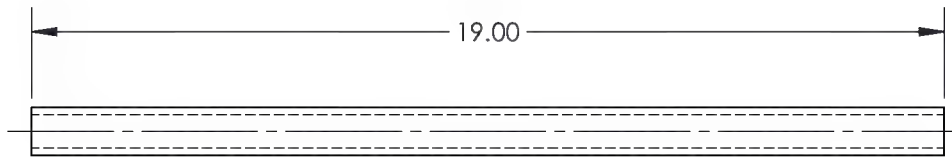


(11)
OUTTER PLATE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-11	REV 3
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:6	DATE 10/20/2014
	SHEET 10 OF 53

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			INITIAL
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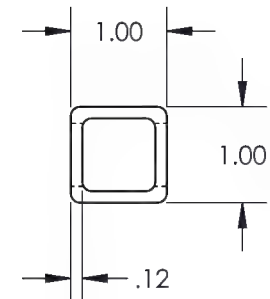
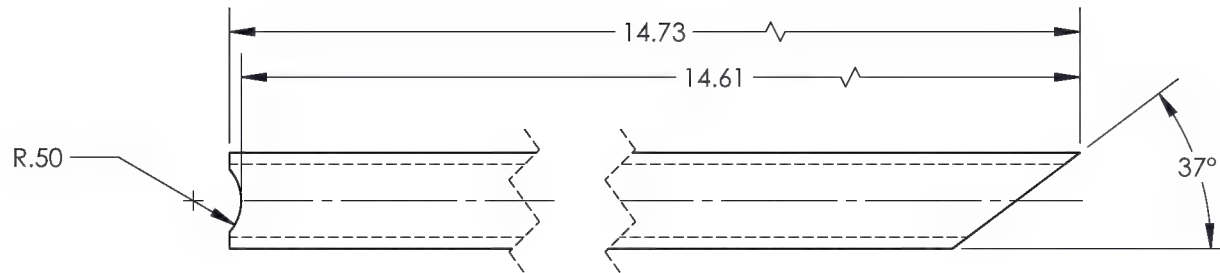
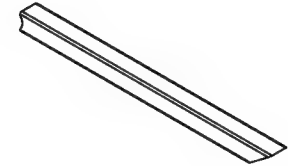


(-13)
AXLE TUBE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-13	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2014
	SHEET 11 OF 53

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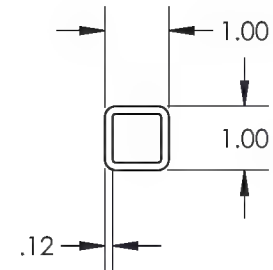
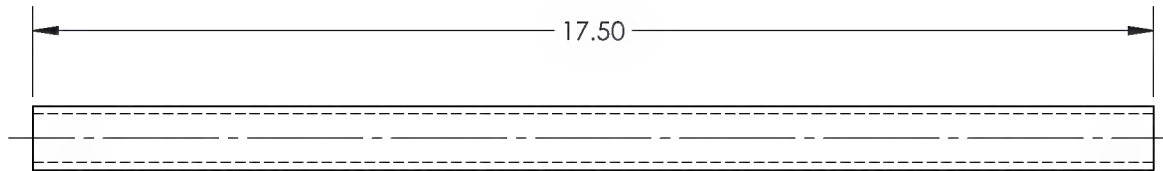
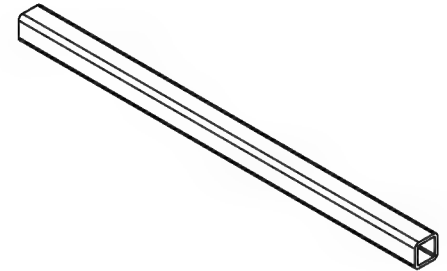
(15)

AXLE CROSS BRACE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-15	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 12 OF 53

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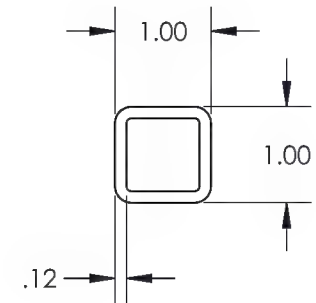
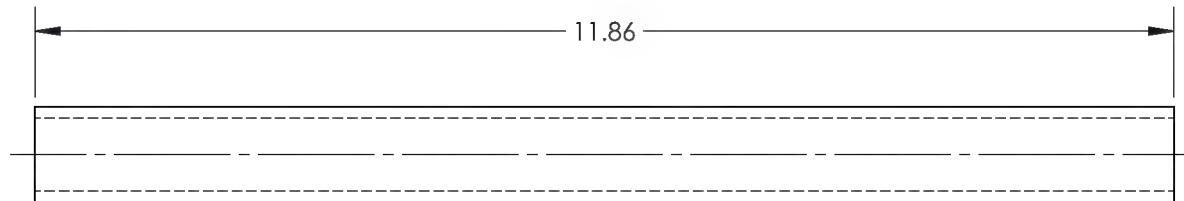
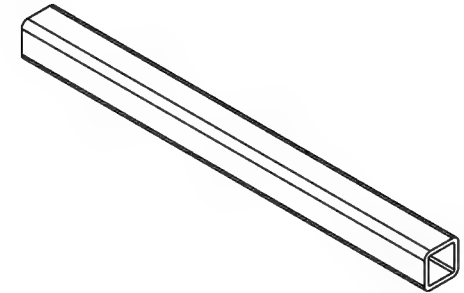
(-17)

OUTSIDE UPRIGHT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-17	REV. 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:3	DATE 10/20/2014
	SHEET 13 OF 53

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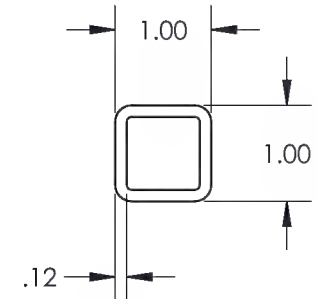
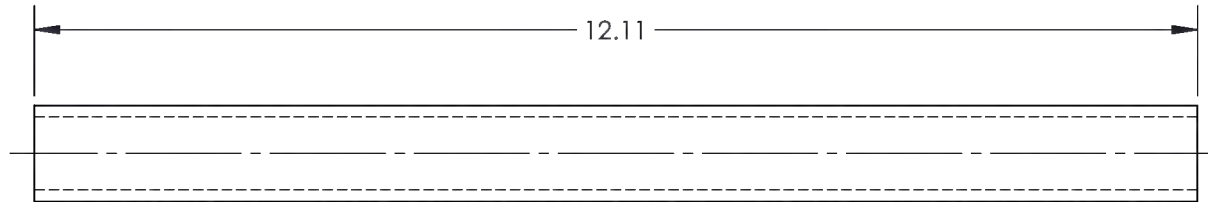
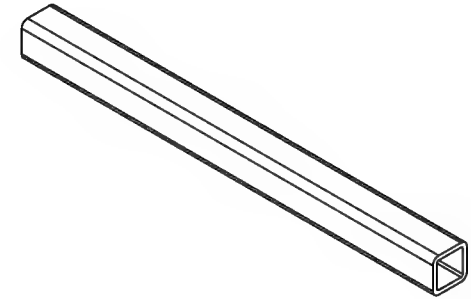
(-19)

TOP HORIZONTAL BAR

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-19	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
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				APPROVED



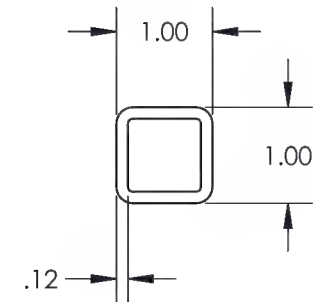
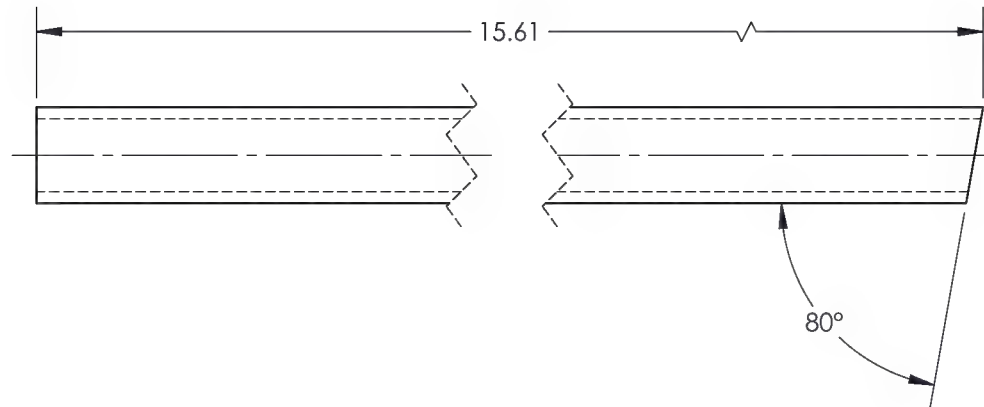
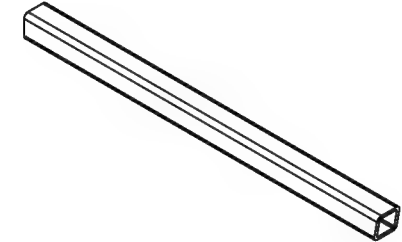
(-21)

MIDDLE HORIZONTAL BRACE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-21	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 15 OF 53

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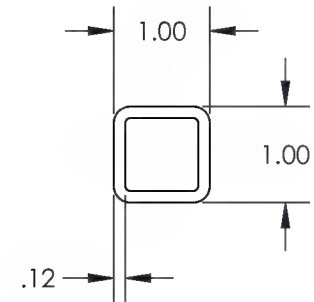
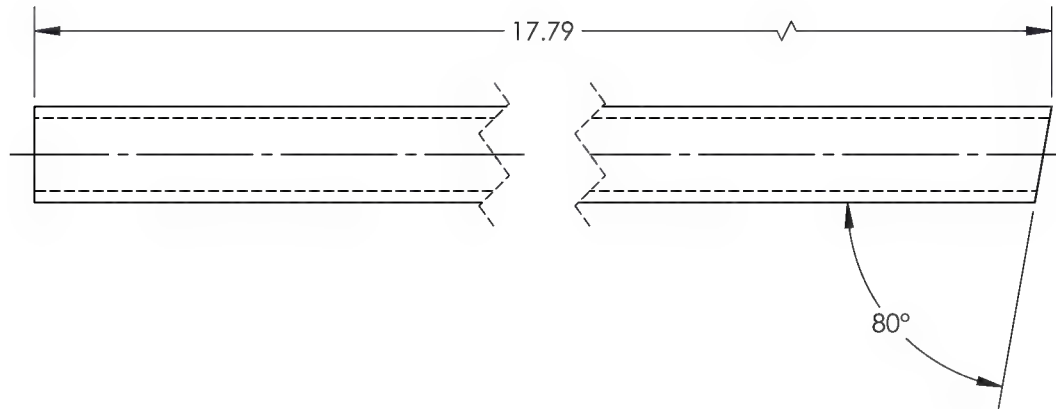
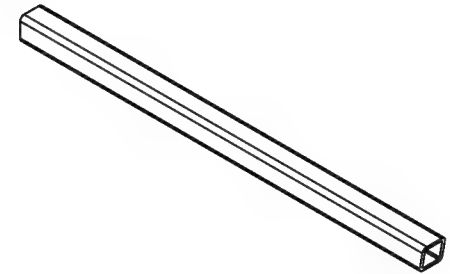
(-23)

RIGHT UPRIGHT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-23	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 16 OF 53

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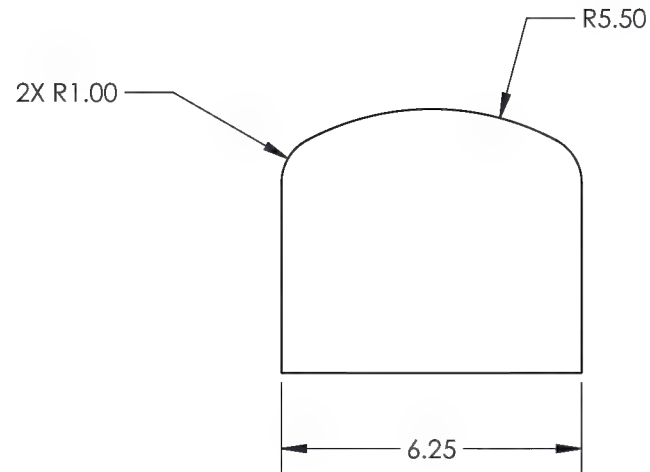
(-25)

MIDDLE UPRIGHT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-25	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 17 OF 53

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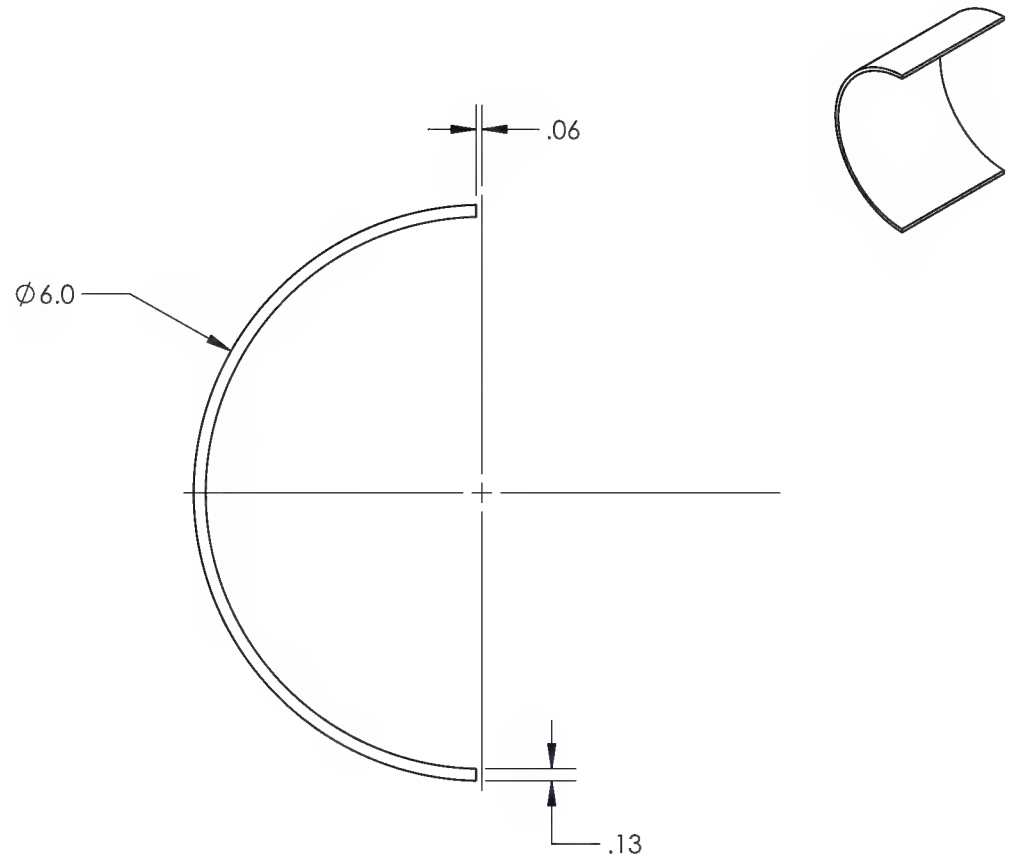
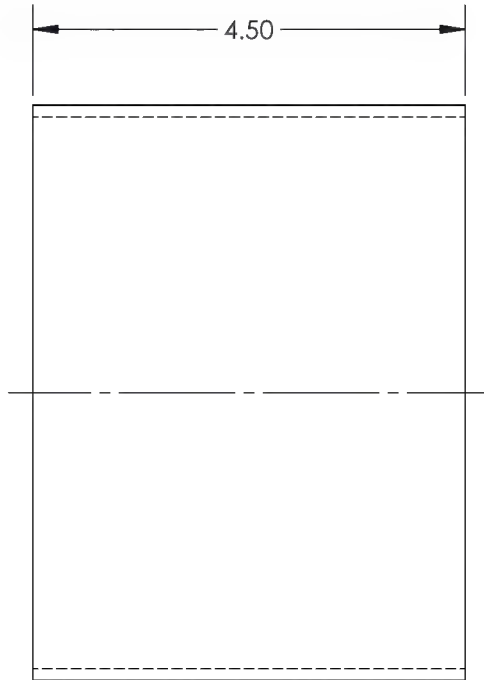
(-27)

RETAINER, HOSE REEL

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-27	REV 3
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/27/2014
	SHEET 18 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-29 ADDED DIM .06.	9/8/2016	DPD	SM

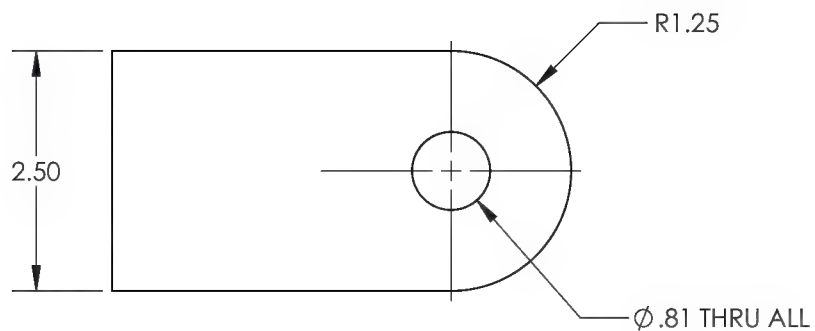
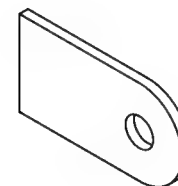
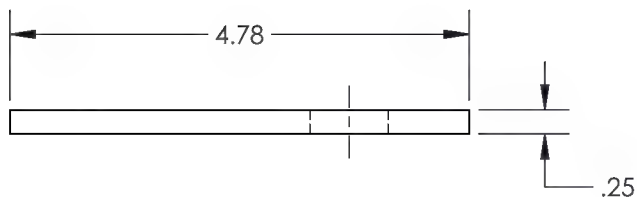


(-29)
HOSE REEL

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-29	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE-1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 19 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-31 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



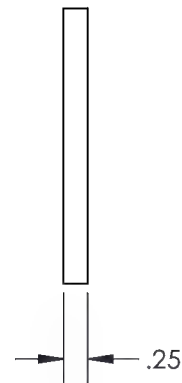
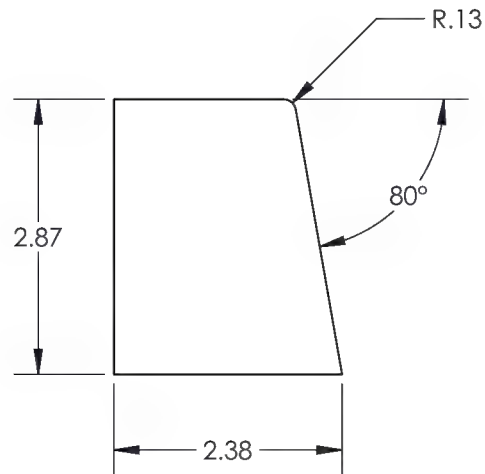
(-31)

LIFTING EYE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-31	REV 3
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 20 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-33 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



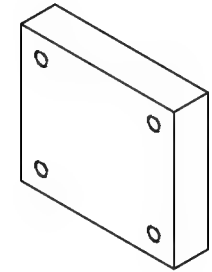
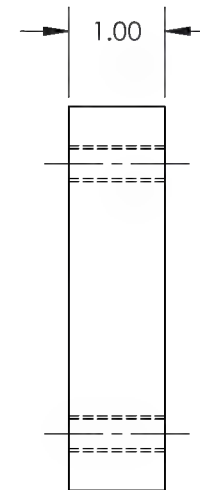
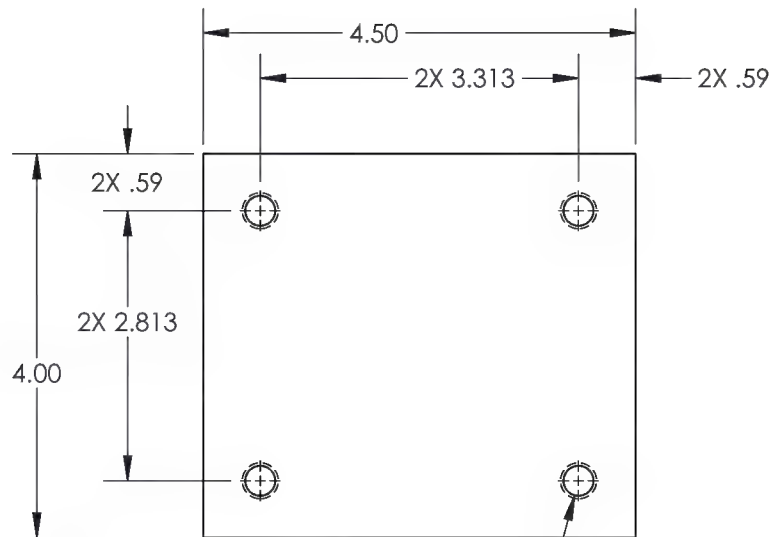
(-33)

GUSSET

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-33	REV 3
MAT'L 1018/1020 CR HEAT TREAT FINISH SEE -1 WELDMENT SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT	USED ON MODEL
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:2	DATE 10/20/2014
SHEET 21 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-35 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



4X 3/8-16 UNC - 2B THRU ALL

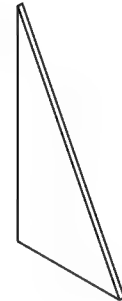
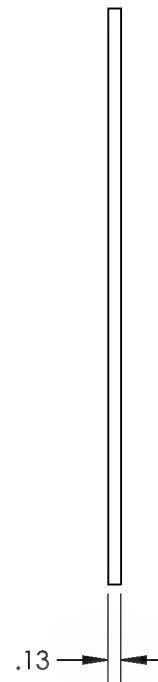
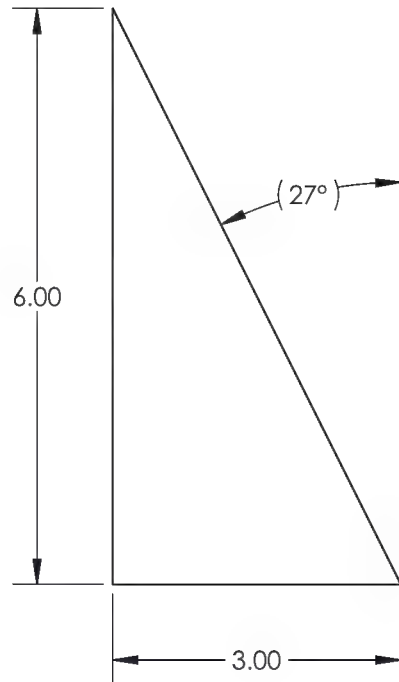
(-35)

CASTER MOUNT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-35	REV 3
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 22 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-37 CH'D MAT'L WAS A36 IS A36/1018/1020 HR.	9/8/2016	DPD	SM

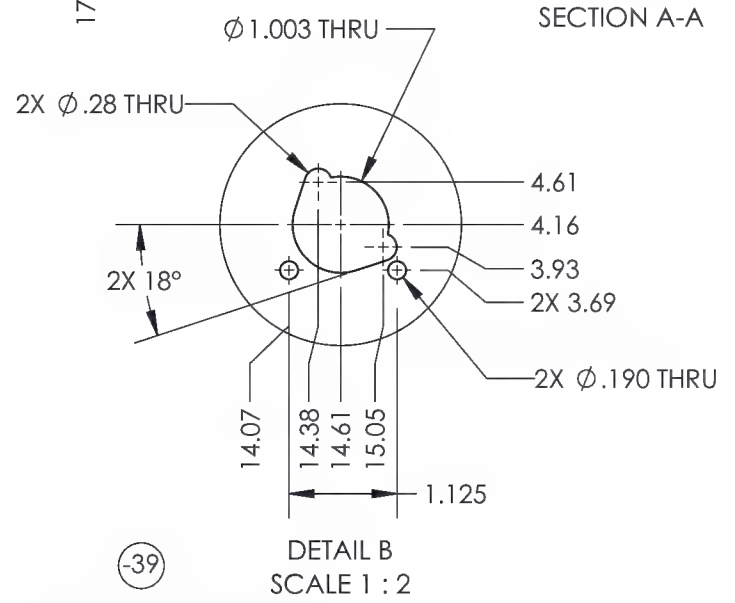
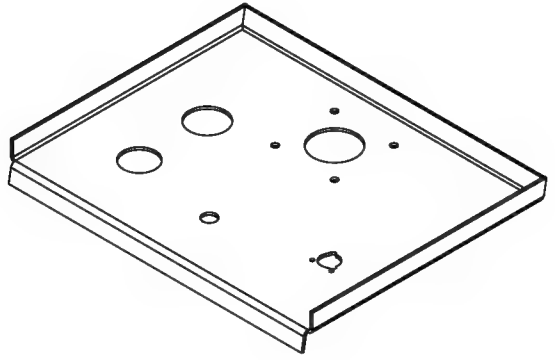
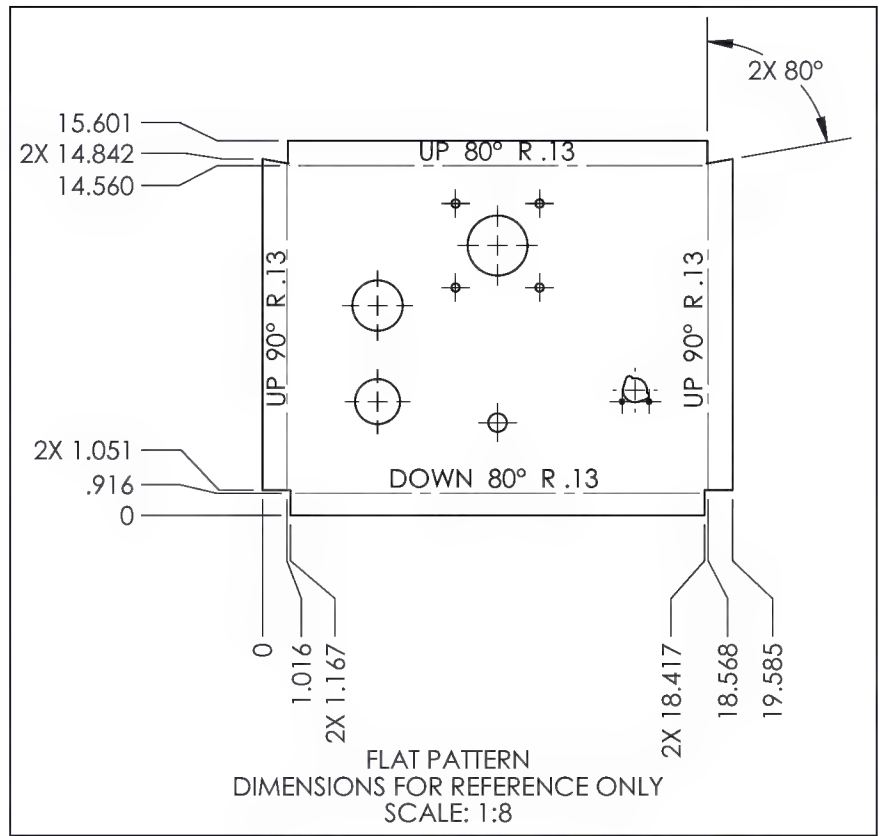
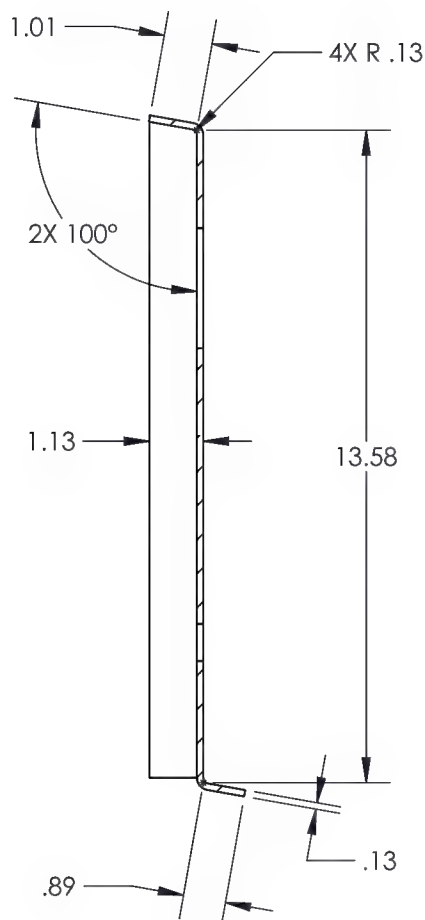
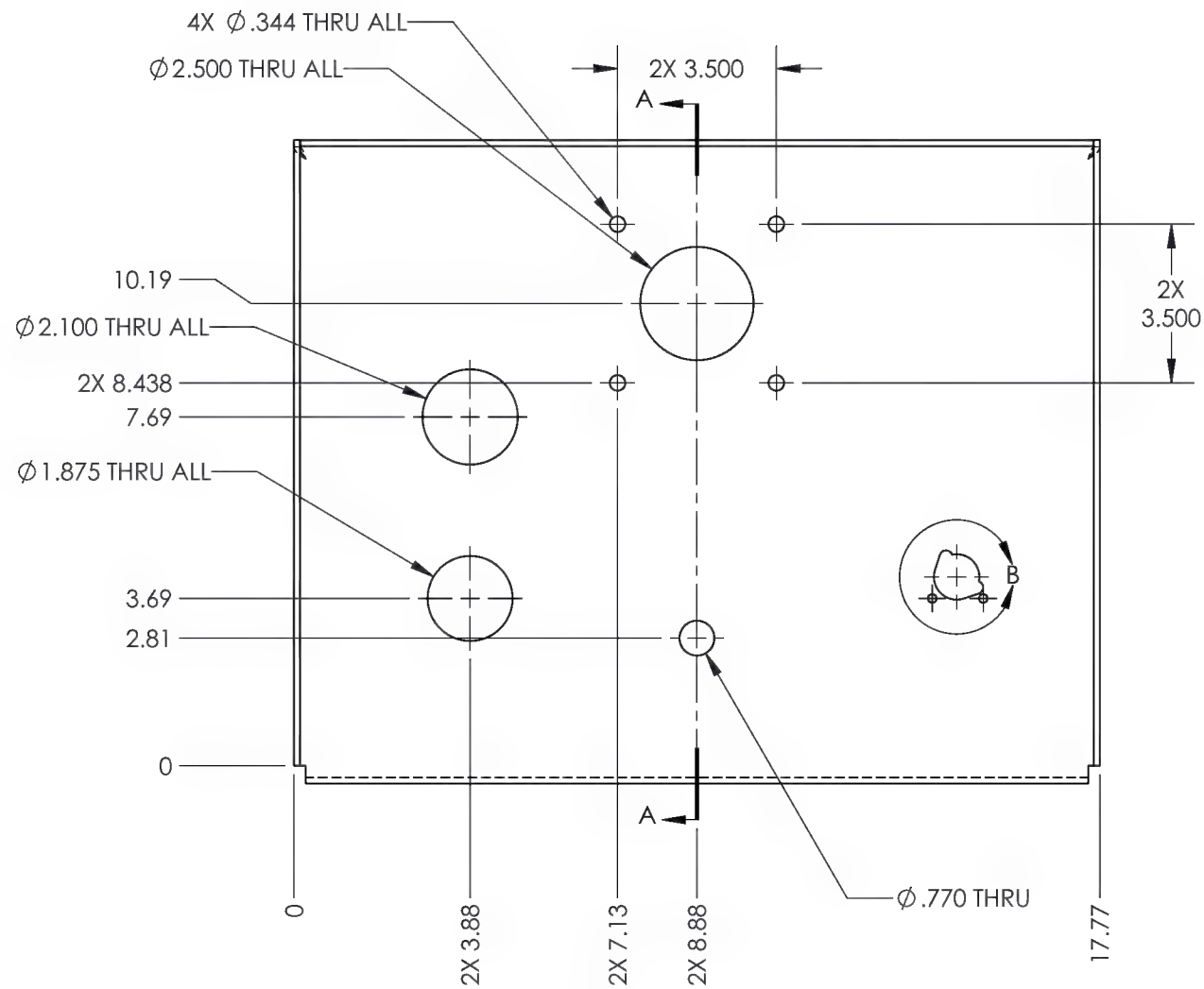


(-37)
BRACE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-37	REV 3
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125/✓
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 10/20/2014	USED ON MODEL
SHEET 23 OF 53	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
3	16-0144	-39 CH'D MAT'L WAS A36 IS A36/1018/1020 HR. CH'D DIMS WAS Ø2.000 IS Ø2.100, WAS Ø.750 IS Ø.770. ADDED DIMS 2X Ø.28, 4.61, 3.93, 14.38,15.05, 2X 18°.	9/8/2016	DPD
				SM

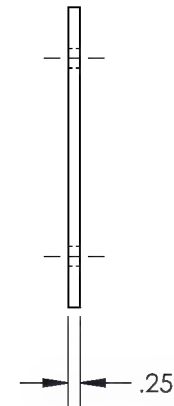
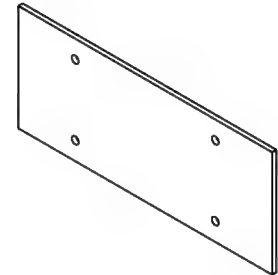
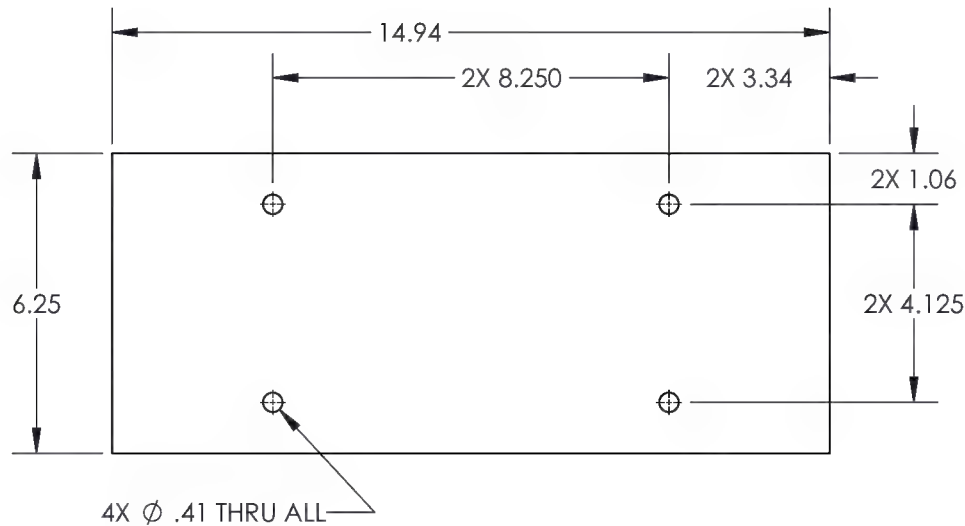


(39)
CONTROL PANEL

DART AEROSPACE			
TITLE 3000 WASH SYSTEM			
DWG NO. HT-3000-CW-39			REV 3
MAT'L A36/1018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .010 FRACTIONS ± 1/8	
FINISH SEE -1		.XX ± .03 ANGLES ± 1°	
SPEC		.X ± .1 SURFACES = 125✓	
DRAWN BY: DUERFELDT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: CLOUGH		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: MACKOVJAK			
SCALE 1:4	DATE 10/22/2014	SHEET 24 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-41 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM

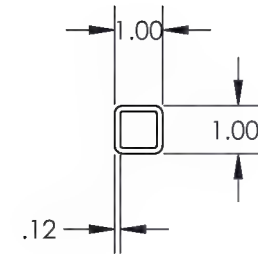
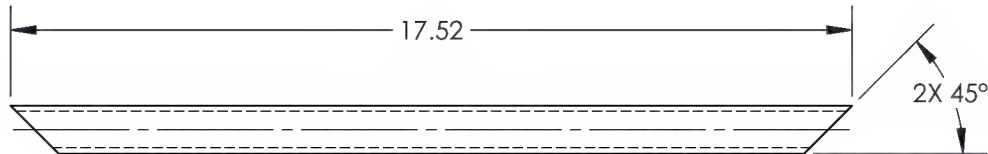
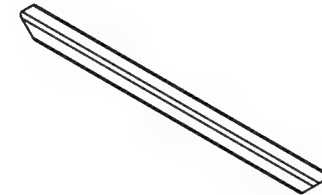


(-41)
CENTER PLATE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-41	REV 3
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125°
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:4	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 10/20/2014	USED ON MODEL
SHEET 25 OF 53	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



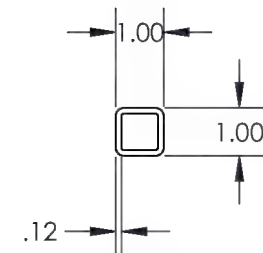
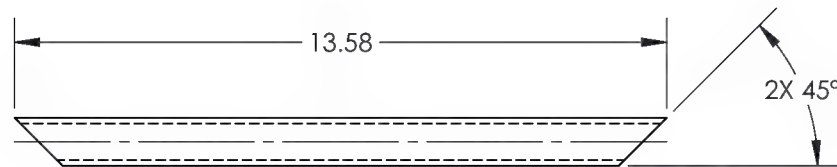
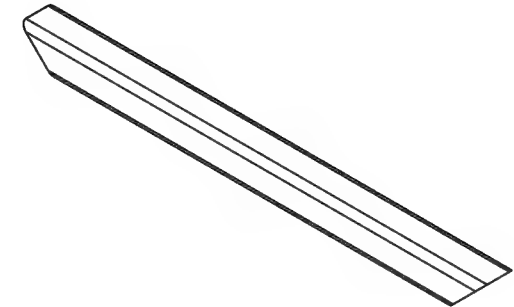
(-43)

FRONT/BACK PANEL SUPPORT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-43	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2015
	SHEET 26 OF 53

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REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



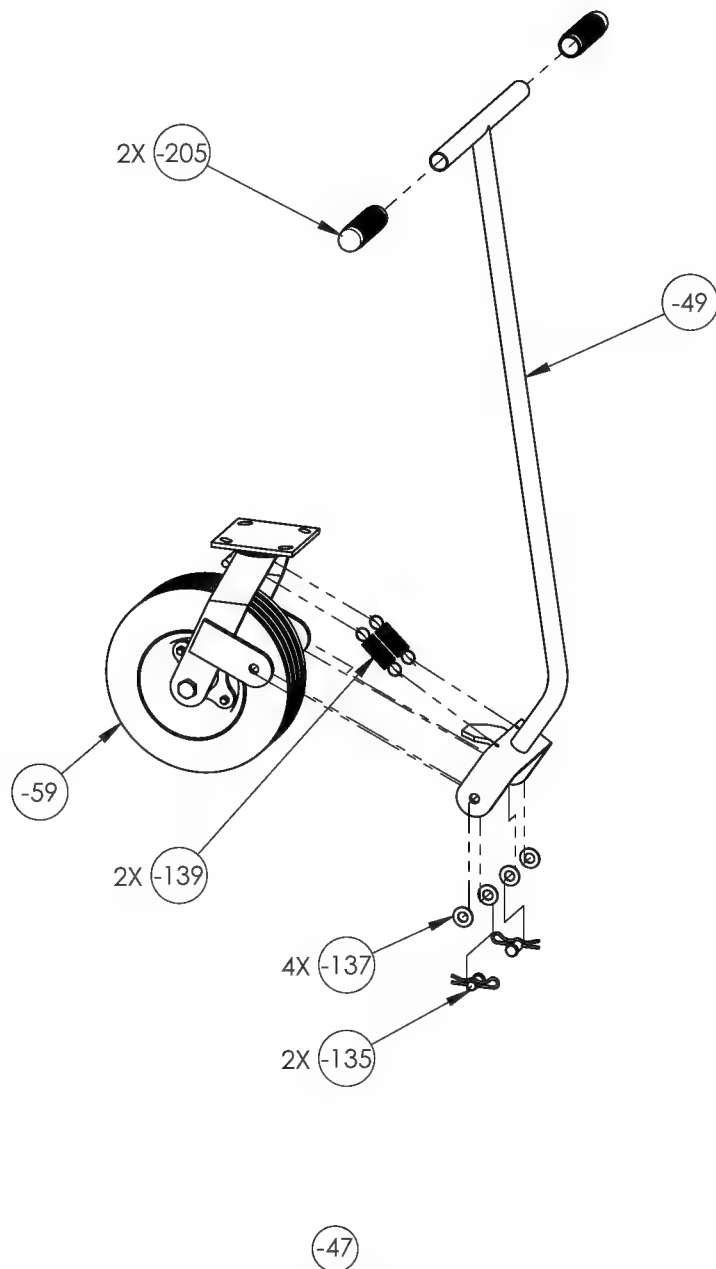
(-45)

SIDE PANEL SUPPORT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-45	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 10/20/2015
	SHEET 27 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
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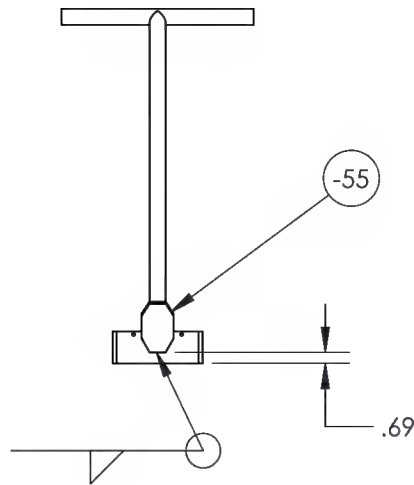
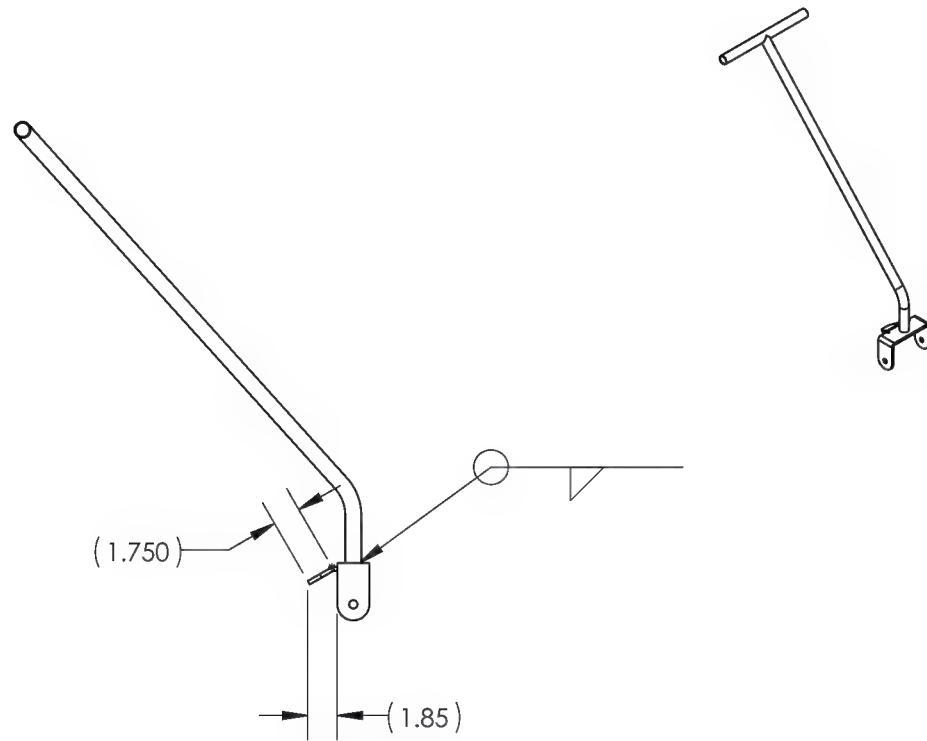
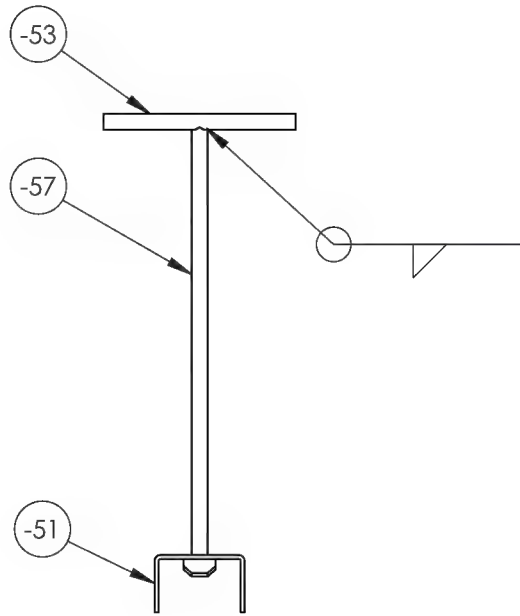


STEERING ASSEMBLY

DART AEROSPACE																													
TITLE 3000 WASH SYSTEM																													
DWG NO. HT-3000-CW-47	REV 3																												
<table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>FEAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>TREAT</td> <td>.XXX ± .010 FRACTIONS ± 1/8</td> </tr> <tr> <td>FINISH</td> <td>.XX ± .03 ANGLES ± 1°</td> </tr> <tr> <td></td> <td>.X ± .1 SURFACES = 125°</td> </tr> <tr> <td>SPEC</td> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> </tr> <tr> <td>DRAWN BY:</td> <td>DUERFELDT</td> </tr> <tr> <td>CHECKED:</td> <td>CLOUGH</td> </tr> <tr> <td>OPPS APPR:</td> <td>ANDERSON</td> </tr> <tr> <td>QA APPR:</td> <td>LINDSAY</td> </tr> <tr> <td>APPROVED:</td> <td>MACKOVJAK</td> </tr> <tr> <td>SCALE</td> <td>1:10</td> </tr> <tr> <td>DATE</td> <td>11/16/2015</td> </tr> <tr> <td colspan="2" style="text-align: right;">SHEET 28 OF 53</td> </tr> </table>		MAT'L	UNLESS OTHERWISE SPECIFIED	FEAT	DIMENSIONS ARE IN INCHES	TREAT	.XXX ± .010 FRACTIONS ± 1/8	FINISH	.XX ± .03 ANGLES ± 1°		.X ± .1 SURFACES = 125°	SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	DRAWN BY:	DUERFELDT	CHECKED:	CLOUGH	OPPS APPR:	ANDERSON	QA APPR:	LINDSAY	APPROVED:	MACKOVJAK	SCALE	1:10	DATE	11/16/2015	SHEET 28 OF 53	
MAT'L	UNLESS OTHERWISE SPECIFIED																												
FEAT	DIMENSIONS ARE IN INCHES																												
TREAT	.XXX ± .010 FRACTIONS ± 1/8																												
FINISH	.XX ± .03 ANGLES ± 1°																												
	.X ± .1 SURFACES = 125°																												
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R																												
DRAWN BY:	DUERFELDT																												
CHECKED:	CLOUGH																												
OPPS APPR:	ANDERSON																												
QA APPR:	LINDSAY																												
APPROVED:	MACKOVJAK																												
SCALE	1:10																												
DATE	11/16/2015																												
SHEET 28 OF 53																													

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

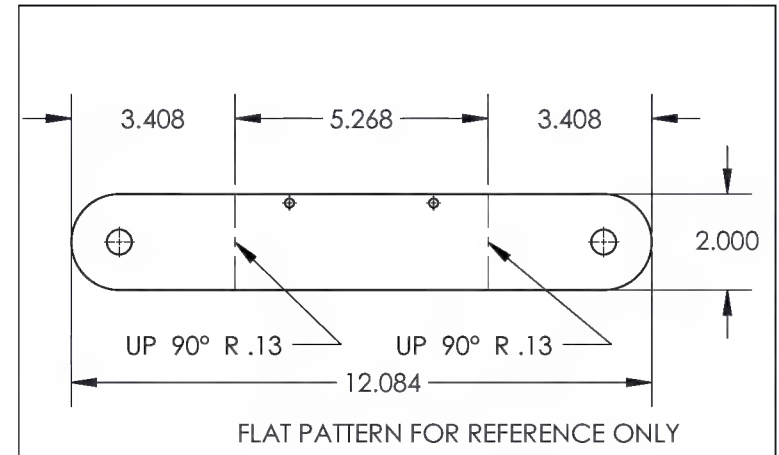
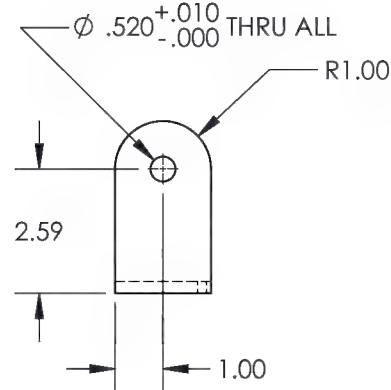
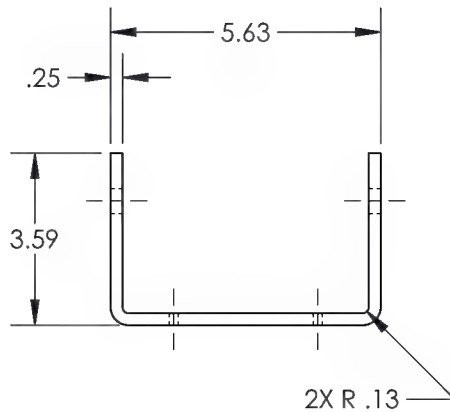
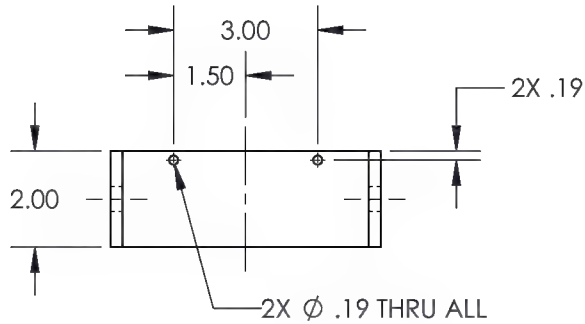
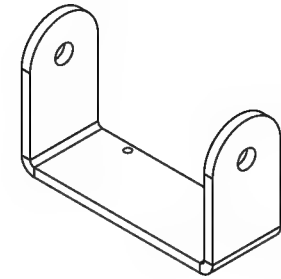


HANDLE WELDMENT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-49	REV 3
MAT'L 6061-T6 ALUMINUM	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FINISH POWDER COAT YELLOW	.XXX ± .010 FRACTIONS ± 1/8
SPEC FED #13538	.XX ± .03 ANGLES ± 1°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125° ✓
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED: MACKOVJAK	USED ON MODEL
SCALE 1:12	DATE 11/16/2015
SHEET 29 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-51 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM

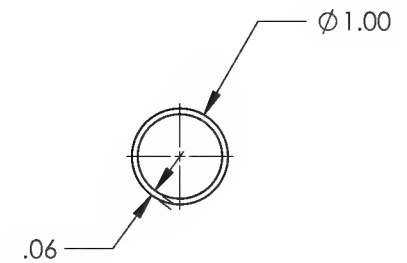
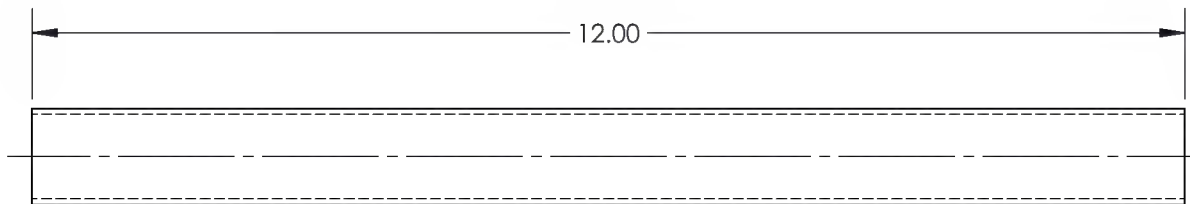
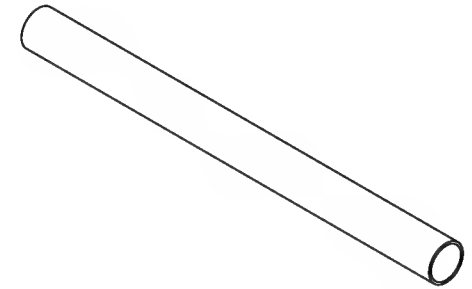


(-51)
HANDLE MOUNT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-51	REV 3
MAT'L 1018/1020 CR HEAT TREAT FINISH SEE -51 WELDMENT SPEC DRAWN BY: DUERFELDT CHECKED: CLOUGH OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: MACKOVJAK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
SCALE 1:4	DATE 10/27/2015
SHEET 30 OF 53	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

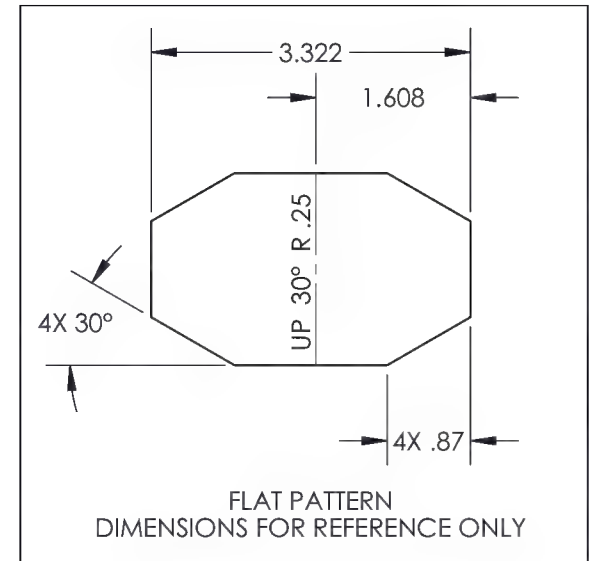
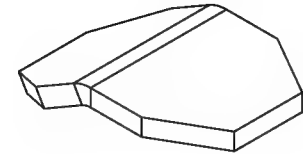
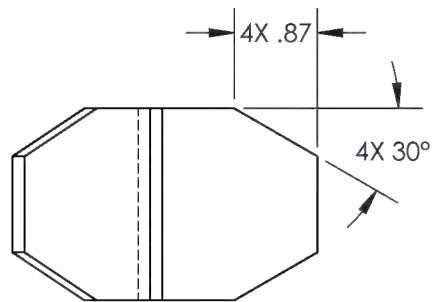
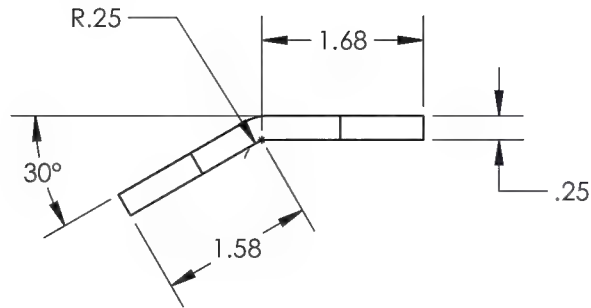


(-53)
HANDLE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-53	REV 3
MAT'L STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -51 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/27/2015
	SHEET 31 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-55 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



(-55)

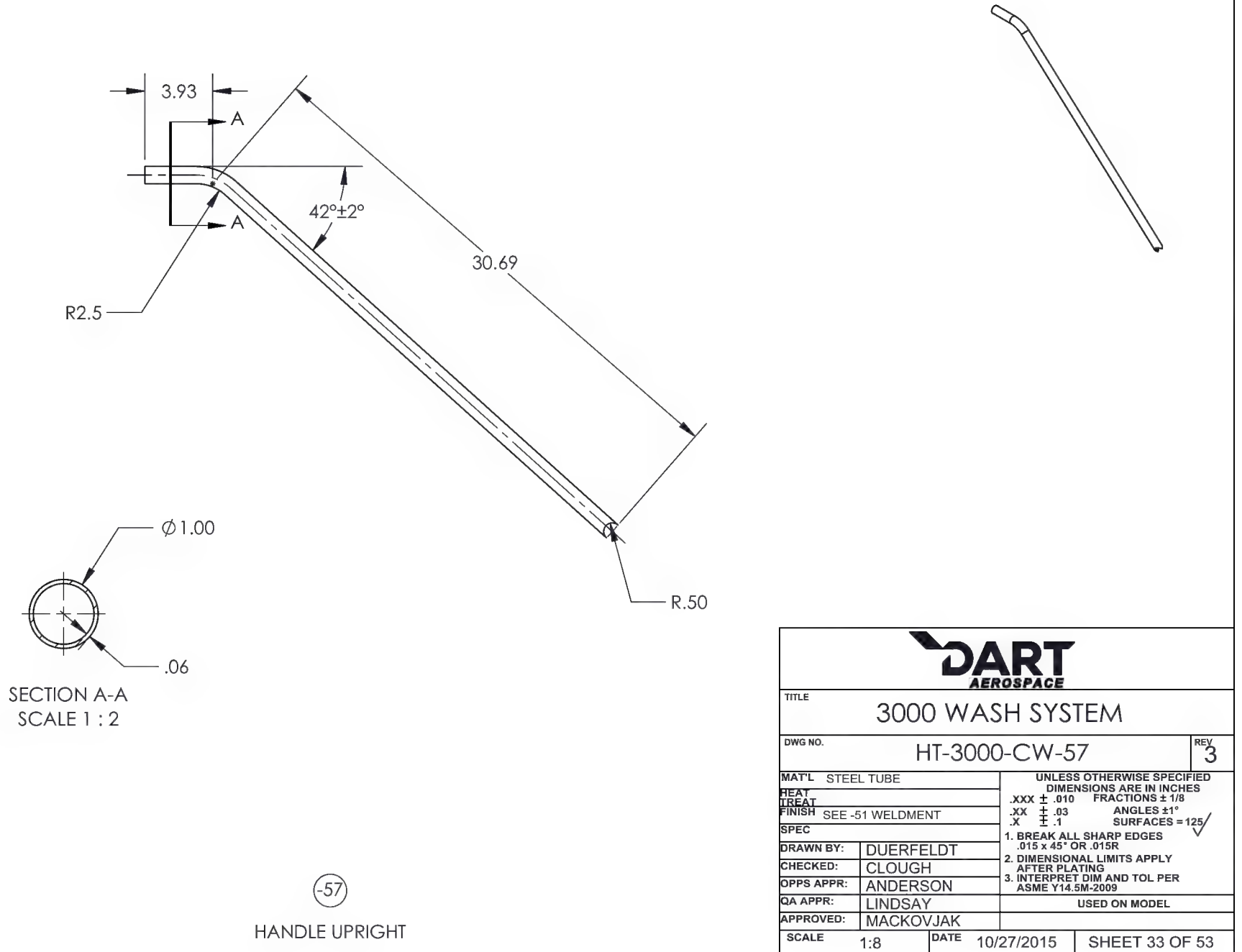
BRAKE



TITLE		3000 WASH SYSTEM	
DWG NO.		HT-3000-CW-55	
REV		3	
MAT'L 1018/1020 CR		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE -51 WELDMENT		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: DUERFELDT		.X ± .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: MACKOVJAK		AFTER PLATING	
SCALE 1:2		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DATE 10/27/2015		USED ON MODEL	
SHEET 32 OF 53			

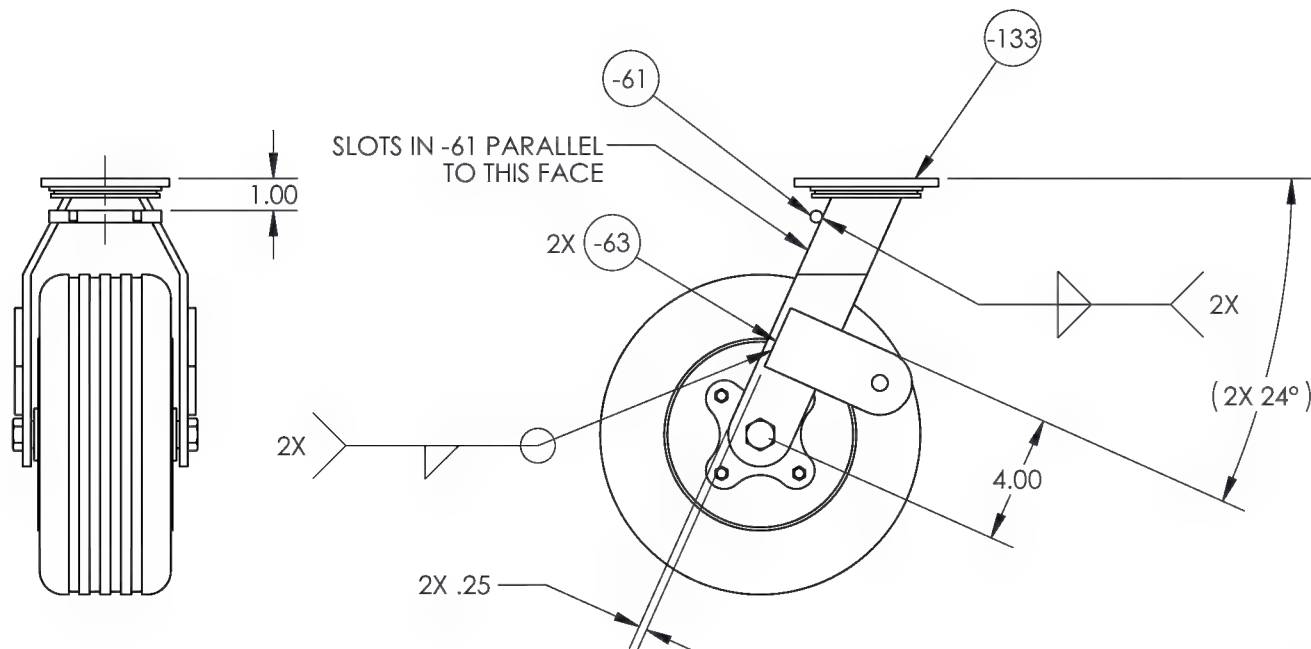
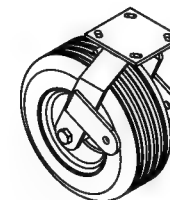
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-57 CH'D DIMS WAS R.25 IS R2.5, WAS 42° IS 42° ±2°.	9/9/2016	DPD	SM



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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
3	16-0144	-59 ADDED WELD SYMBOLS.	9/9/2016	DPD
				SM



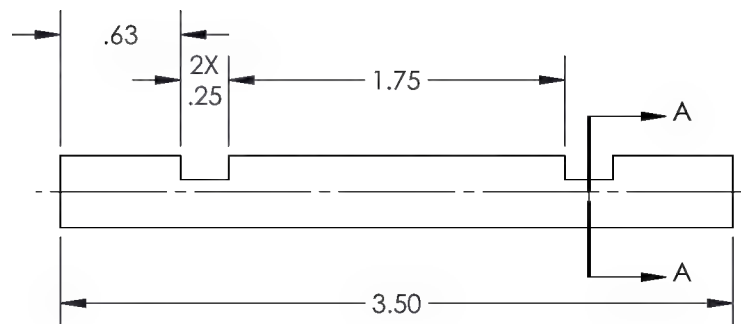
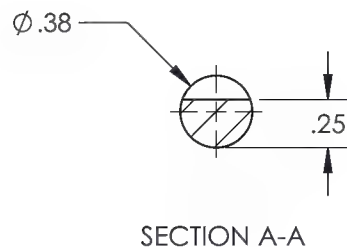
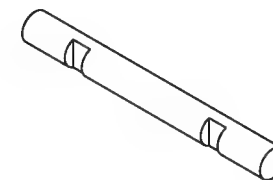
(-59)

CASTER WELDMENT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-59	REV 3
MAT'L FEAT	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TREAT FINISH PAINT BLACK	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	
SCALE 1:6	DATE 10/23/2014
SHEET 34 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-61 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



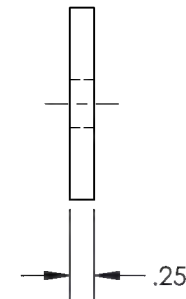
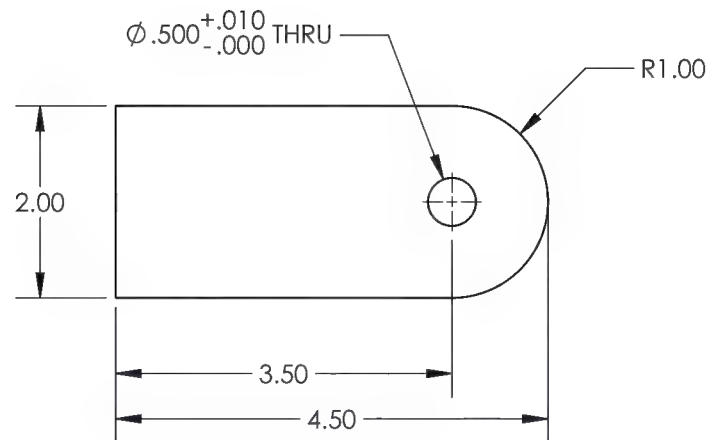
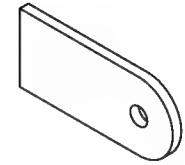
(-61)

SPRING RETAINER

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-61	REV 3
MAT'L 1018/1020 CR HEAT TREAT FINISH SEE -61 WELDMENT SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT	USED ON MODEL
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 10/27/2015
SHEET 35 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-63 CH'D MAT'L WAS 1018/1020 IS 1018/1020 CR.	9/8/2016	DPD	SM



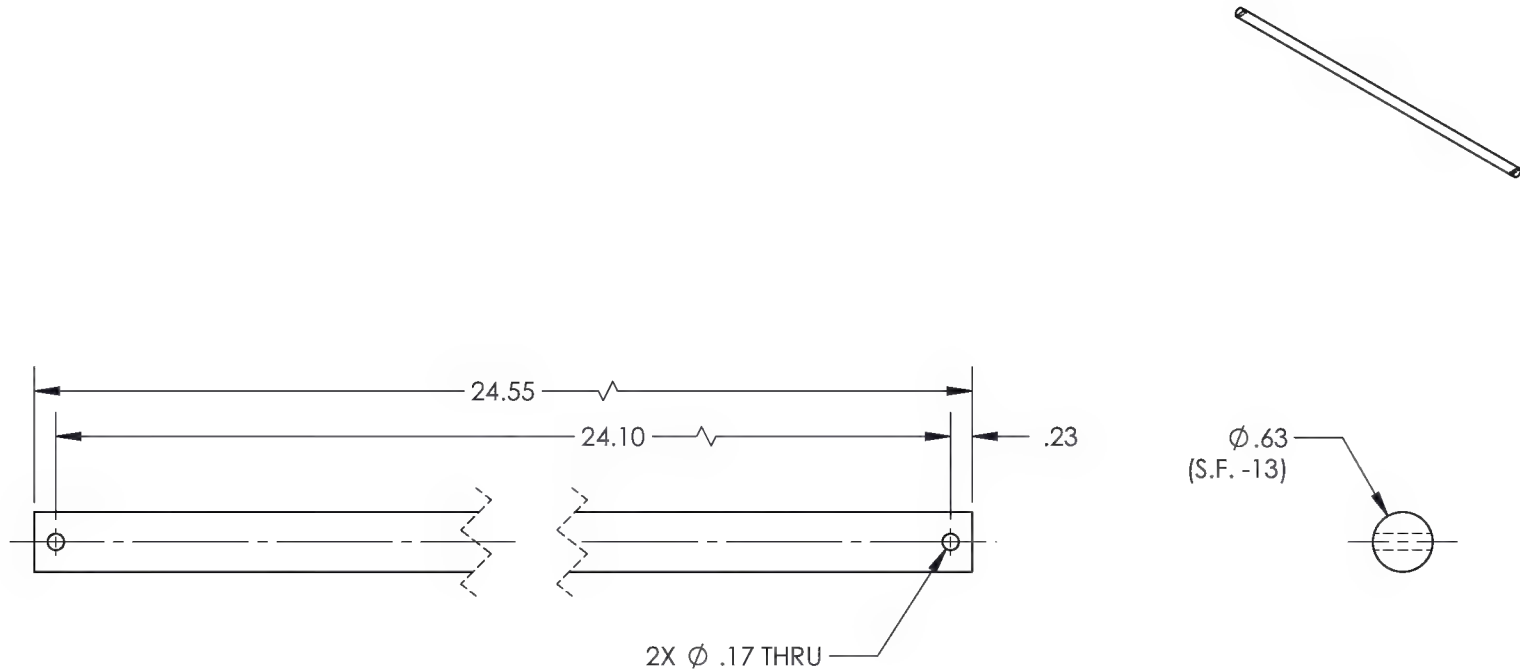
(-63)

CASTER HANDLE MOUNT

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-63	REV 3
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -61 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
SHEET 36 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-65 CH'D DIMS WAS 29.00 IS 24.55, WAS 28.55 IS 24.10.	9/8/2016	DPD	JAG

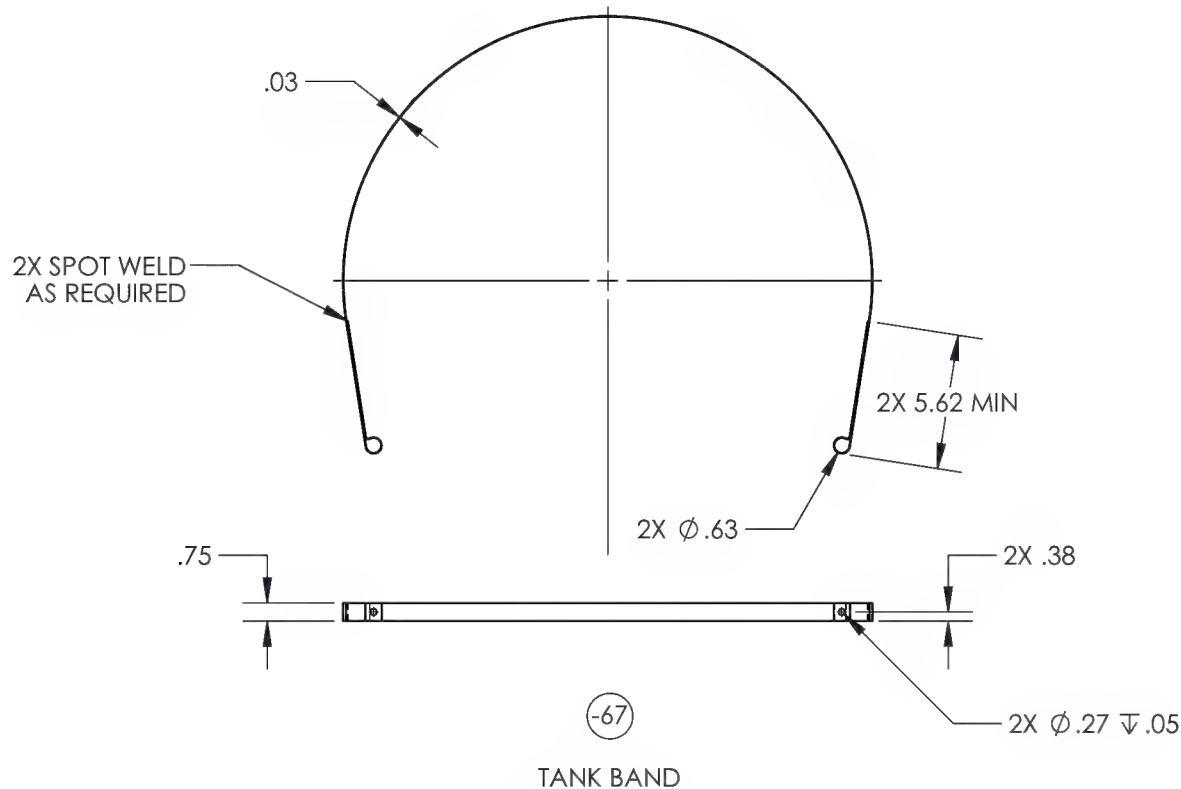
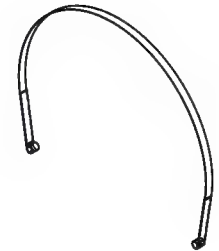
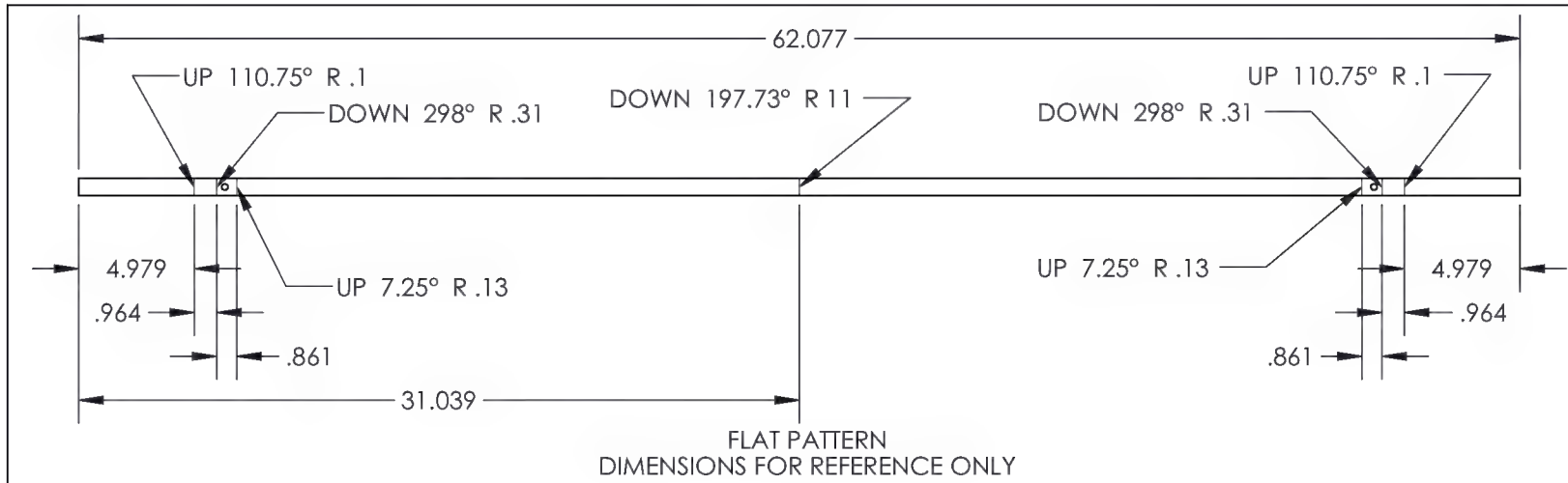


(-65)
AXLE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-65	REV 3
MAT'L 303/304	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/20/2014
	SHEET 37 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-67 ADDED SPOT WELD NOTE. CH'D DIMS WAS Ø.63 IS 2X Ø.63, WAS 5.62 MIN IS 2X 5.62 MIN, WAS .38 IX 2X .38.	9/8/2016	DPD	SM

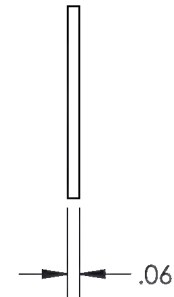
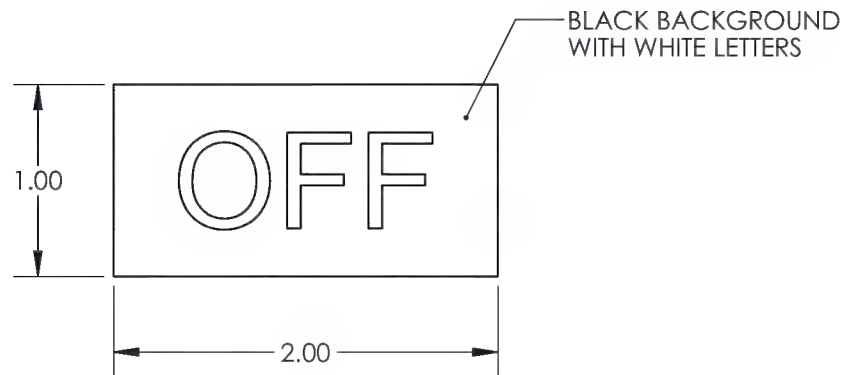
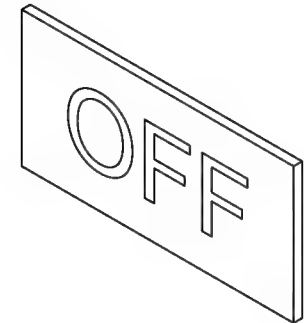


NOTE:
FORM BY HAND AS REQUIRED.

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-67	REV 3
MAT'L S.S.	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:8	DATE 10/27/2015
	SHEET 38 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-69 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM



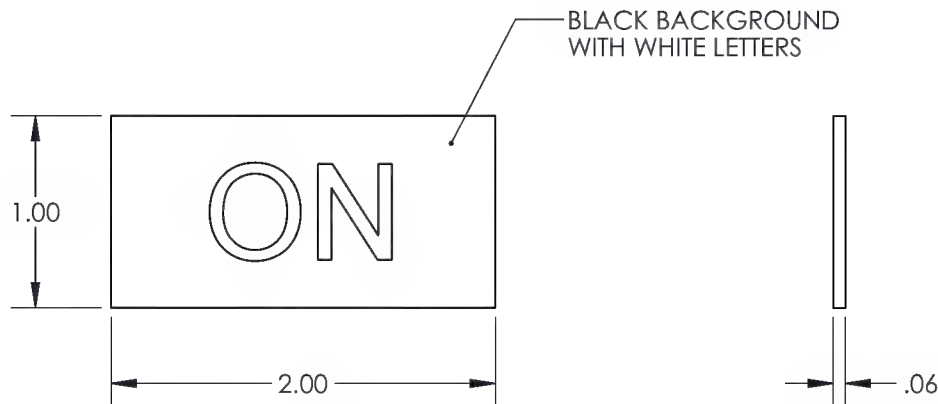
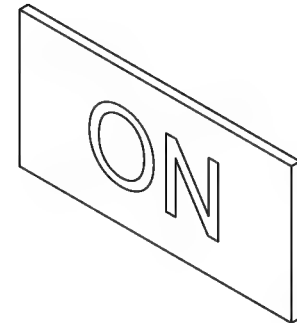
NOTE:
USE PDF.

(-69)
PLACARD OFF

DART AEROSPACE																										
TITLE 3000 WASH SYSTEM																										
DWG NO. HT-3000-CW-69	REV 3																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">MAT'L PLASTIC</td> <td rowspan="4" style="width: 70%; vertical-align: top;"> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓ </td> </tr> <tr> <td>REAT</td> </tr> <tr> <td>TREAT</td> </tr> <tr> <td>FINISH</td> </tr> <tr> <td colspan="2">SPEC</td> </tr> <tr> <td colspan="2"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DRAWN BY:</td> <td>DUERFELDT</td> </tr> <tr> <td>CHECKED:</td> <td>CLOUGH</td> </tr> <tr> <td>OPPS APPR:</td> <td>ANDERSON</td> </tr> <tr> <td>QA APPR:</td> <td>LINDSAY</td> </tr> <tr> <td>APPROVED:</td> <td>MACKOVJAK</td> </tr> </table> </td> </tr> <tr> <td colspan="2"> 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL </td> </tr> <tr> <td>SCALE 1:1</td> <td>DATE 10/23/2015</td> </tr> <tr> <td colspan="2" style="text-align: right;">SHEET 39 OF 53</td> </tr> </table>		MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	REAT	TREAT	FINISH	SPEC		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DRAWN BY:</td> <td>DUERFELDT</td> </tr> <tr> <td>CHECKED:</td> <td>CLOUGH</td> </tr> <tr> <td>OPPS APPR:</td> <td>ANDERSON</td> </tr> <tr> <td>QA APPR:</td> <td>LINDSAY</td> </tr> <tr> <td>APPROVED:</td> <td>MACKOVJAK</td> </tr> </table>		DRAWN BY:	DUERFELDT	CHECKED:	CLOUGH	OPPS APPR:	ANDERSON	QA APPR:	LINDSAY	APPROVED:	MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL		SCALE 1:1	DATE 10/23/2015	SHEET 39 OF 53	
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓																									
REAT																										
TREAT																										
FINISH																										
SPEC																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DRAWN BY:</td> <td>DUERFELDT</td> </tr> <tr> <td>CHECKED:</td> <td>CLOUGH</td> </tr> <tr> <td>OPPS APPR:</td> <td>ANDERSON</td> </tr> <tr> <td>QA APPR:</td> <td>LINDSAY</td> </tr> <tr> <td>APPROVED:</td> <td>MACKOVJAK</td> </tr> </table>		DRAWN BY:	DUERFELDT	CHECKED:	CLOUGH	OPPS APPR:	ANDERSON	QA APPR:	LINDSAY	APPROVED:	MACKOVJAK															
DRAWN BY:	DUERFELDT																									
CHECKED:	CLOUGH																									
OPPS APPR:	ANDERSON																									
QA APPR:	LINDSAY																									
APPROVED:	MACKOVJAK																									
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SCALE 1:1	DATE 10/23/2015																									
SHEET 39 OF 53																										

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-71 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM



NOTE:
USE PDF.

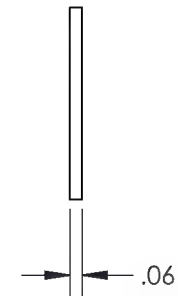
(-71)
PLACARD ON

DART AEROSPACE																									
TITLE 3000 WASH SYSTEM																									
DWG NO. HT-3000-CW-71	REV 3																								
<table border="1"> <tr> <td>MAT'L PLASTIC</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>FEAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>TREAT</td> <td>.XXX ± .010 FRACTIONS ± 1/8</td> </tr> <tr> <td>FINISH</td> <td>.XX ± .03 ANGLES ± 1°</td> </tr> <tr> <td>SPEC</td> <td>.X ± .1 SURFACES = 125° ✓</td> </tr> <tr> <td>DRAWN BY: DUERFELDT</td> <td>1. BREAK ALL SHARP EDGES</td> </tr> <tr> <td>CHECKED: CLOUGH</td> <td>.015 x 45° OR .015R</td> </tr> <tr> <td>OPPS APPR: ANDERSON</td> <td>2. DIMENSIONAL LIMITS APPLY</td> </tr> <tr> <td>QA APPR: LINDSAY</td> <td>AFTER PLATING</td> </tr> <tr> <td>APPROVED: MACKOVJAK</td> <td>3. INTERPRET DIM AND TOL PER</td> </tr> <tr> <td></td> <td>ASME Y14.5M-2009</td> </tr> <tr> <td></td> <td>USED ON MODEL</td> </tr> </table>		MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED	FEAT	DIMENSIONS ARE IN INCHES	TREAT	.XXX ± .010 FRACTIONS ± 1/8	FINISH	.XX ± .03 ANGLES ± 1°	SPEC	.X ± .1 SURFACES = 125° ✓	DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES	CHECKED: CLOUGH	.015 x 45° OR .015R	OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY	QA APPR: LINDSAY	AFTER PLATING	APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER		ASME Y14.5M-2009		USED ON MODEL
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED																								
FEAT	DIMENSIONS ARE IN INCHES																								
TREAT	.XXX ± .010 FRACTIONS ± 1/8																								
FINISH	.XX ± .03 ANGLES ± 1°																								
SPEC	.X ± .1 SURFACES = 125° ✓																								
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES																								
CHECKED: CLOUGH	.015 x 45° OR .015R																								
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY																								
QA APPR: LINDSAY	AFTER PLATING																								
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER																								
	ASME Y14.5M-2009																								
	USED ON MODEL																								
SCALE 1:1	DATE 10/23/2015																								
SHEET 40 OF 53																									

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-73 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM

AGITATION



NOTE:
USE PDF.

(-73)

PLACARD AGITATION

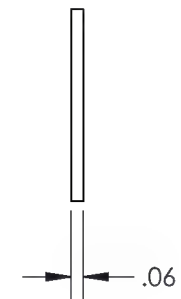
DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-73	REV 3
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED
FEAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH	.XX ± .03 ANGLES ± 1°
SPEC	.X ± .1 SURFACES = 125
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
SCALE 1:1	ASME Y14.5M-2009
DATE 10/23/2015	USED ON MODEL
SHEET 41 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-75 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM

AIR PRESSURE

BLACK BACKGROUND
WITH WHITE LETTERS



NOTE:
USE PDF.



TITLE		3000 WASH SYSTEM	
DWG NO.		HT-3000-CW-75	REV 3
MAT'L PLASTIC		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: DUERFELDT		.X ± .1 SURFACES = 125	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
APPROVED: MACKOVJAK		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SCALE 1:1		DATE 10/23/2015	
		SHEET 42 OF 53	

(-75)

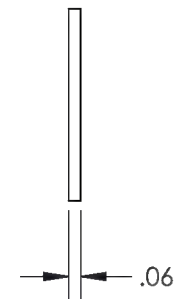
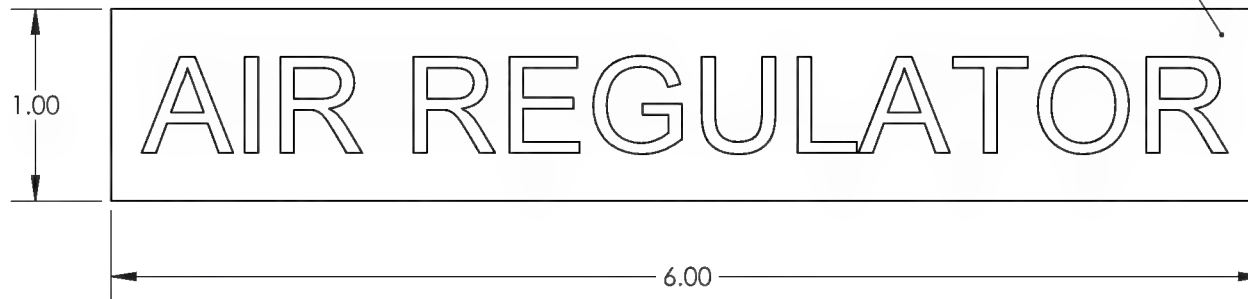
PLACARD AIR PRESSURE

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-77 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM

AIR REGULATOR

BLACK BACKGROUND
WITH WHITE LETTERS



NOTE:
USE PDF.



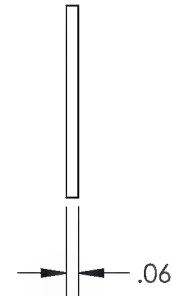
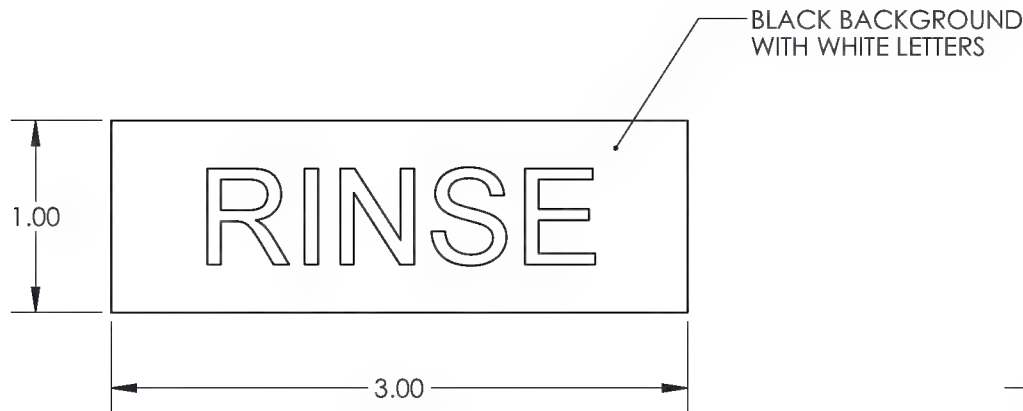
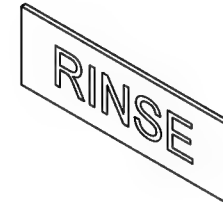
TITLE		3000 WASH SYSTEM	
DWG NO.		HT-3000-CW-77	
REV		3	
MAT'L PLASTIC		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: DUERFELDT		.X ± .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
APPROVED: MACKOVJAK		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SCALE 1:1		DATE 10/23/2015	
		SHEET 43 OF 53	

(-77)

PLACARD AIR REGULATOR

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-79 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM



NOTE:
USE PDF.

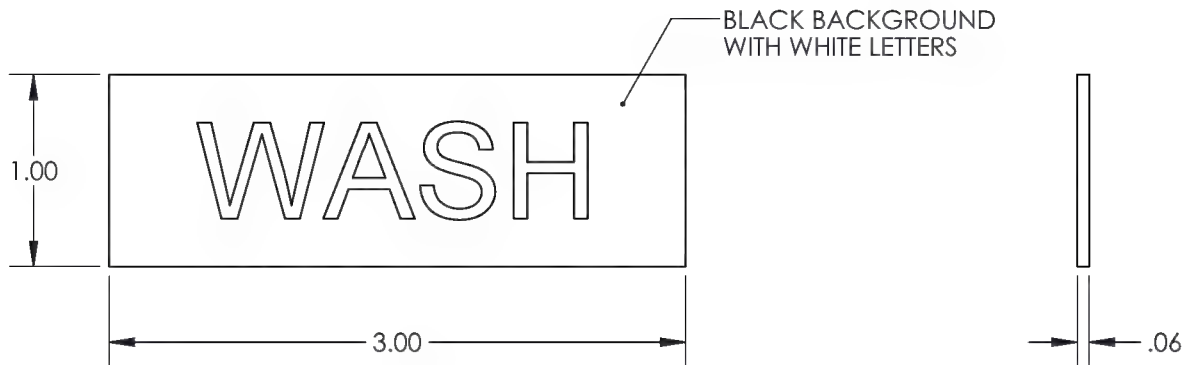
(-79)

PLACARD RINSE

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-79	REV 3
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 10/23/2015
	SHEET 44 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-81 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM



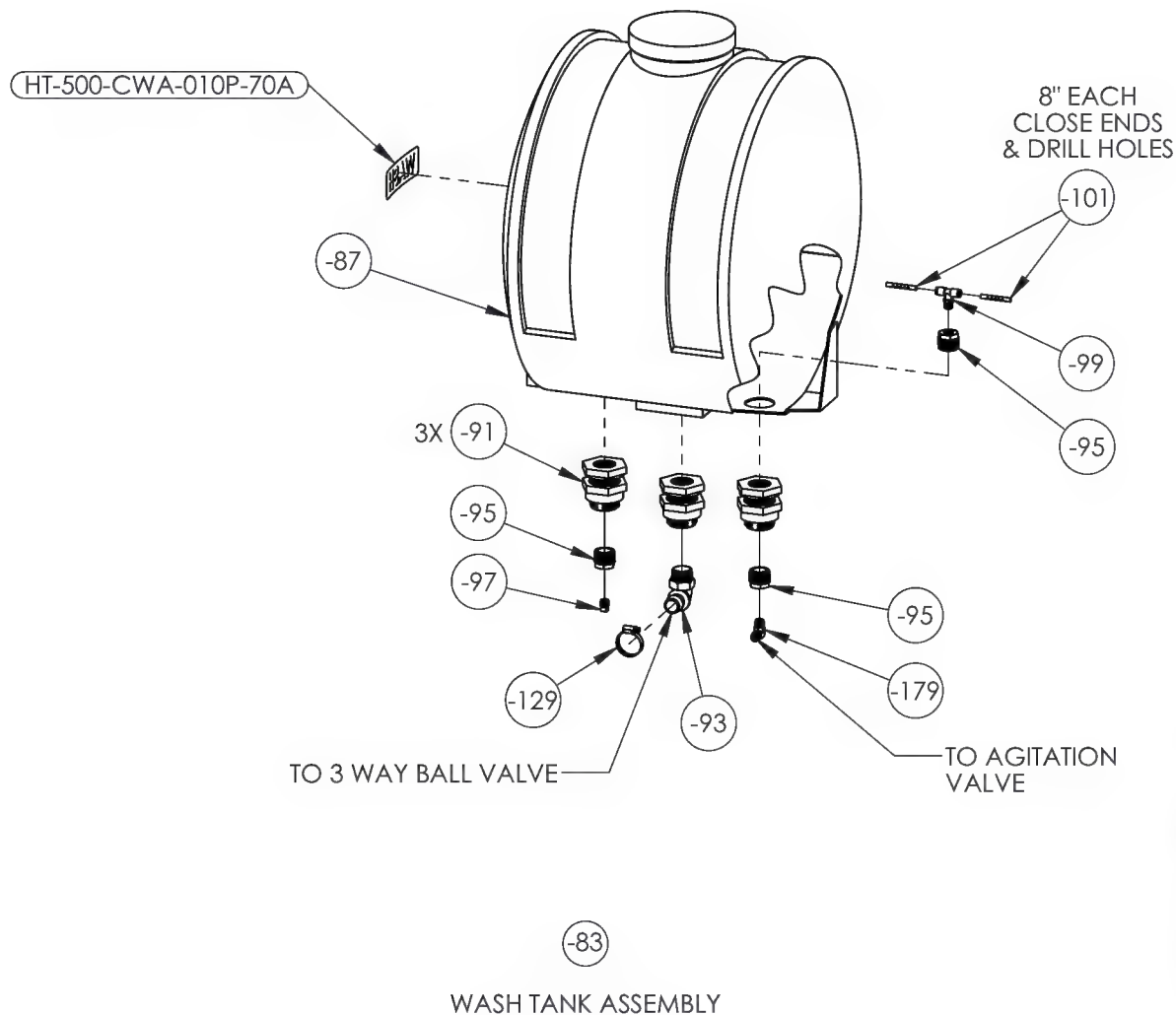
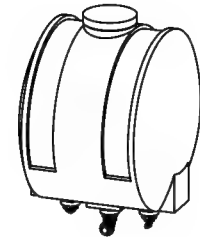
NOTE:
USE PDF.

(-81)
PLACARD WASH

DART AEROSPACE																		
TITLE 3000 WASH SYSTEM																		
DWG NO. HT-3000-CW-81	REV 3																	
<table border="1"> <tr> <td>MAT'L PLASTIC</td> <td rowspan="4"> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓ </td> </tr> <tr> <td>HEAT TREAT</td> </tr> <tr> <td>FINISH</td> </tr> <tr> <td>SPEC</td> </tr> <tr> <td>DRAWN BY: DUERFELDT</td> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> </tr> <tr> <td>CHECKED: CLOUGH</td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td>OPPS APPR: ANDERSON</td> <td>3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> <tr> <td>QA APPR: LINDSAY</td> <td>USED ON MODEL</td> </tr> <tr> <td>APPROVED: GILBERT</td> <td></td> </tr> <tr> <td>SCALE 1:1</td> <td>DATE 10/23/2015 SHEET 45 OF 53</td> </tr> </table>		MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	HEAT TREAT	FINISH	SPEC	DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	QA APPR: LINDSAY	USED ON MODEL	APPROVED: GILBERT		SCALE 1:1	DATE 10/23/2015 SHEET 45 OF 53
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓																	
HEAT TREAT																		
FINISH																		
SPEC																		
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R																	
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING																	
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009																	
QA APPR: LINDSAY	USED ON MODEL																	
APPROVED: GILBERT																		
SCALE 1:1	DATE 10/23/2015 SHEET 45 OF 53																	

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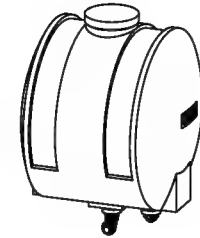
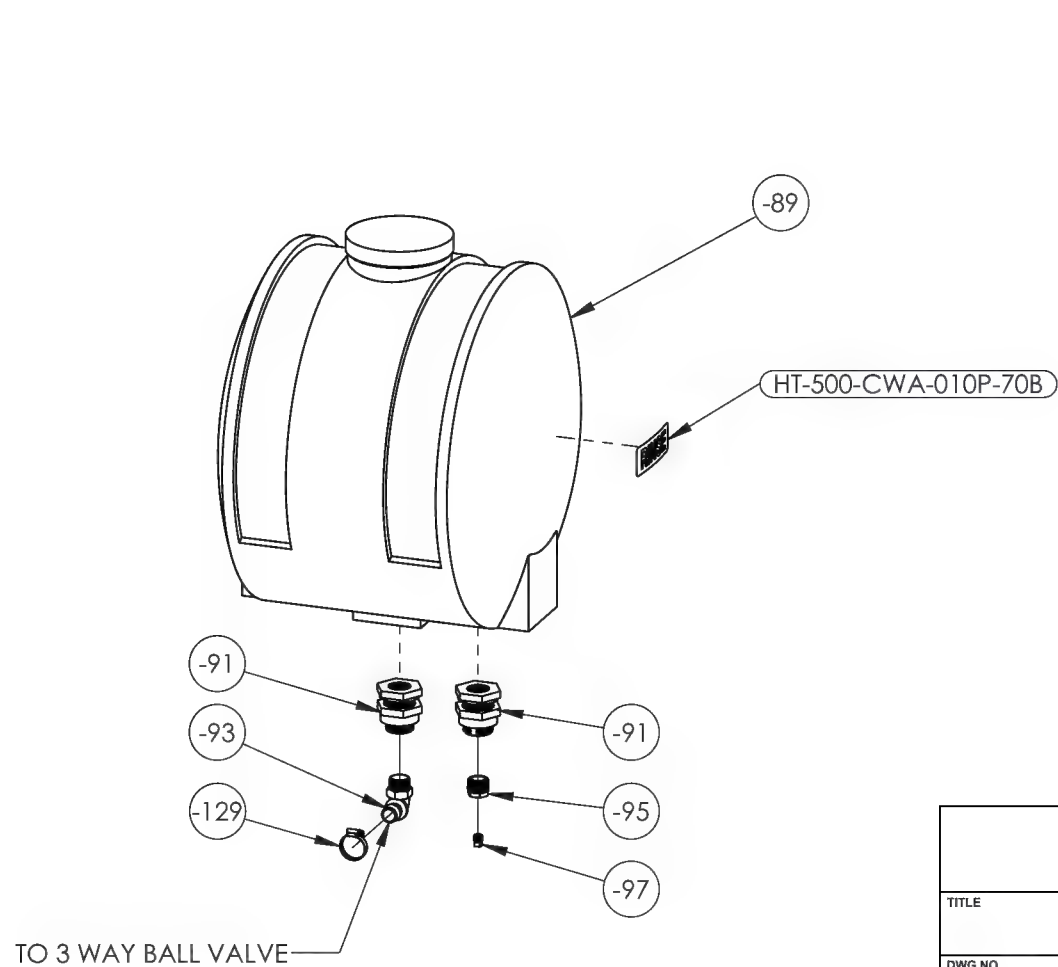
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-83 CH'D LENGTH OF HOSE WAS 2FT EACH IS 8" EACH. ADDED CLOSE ENDS & DRILL HOLES. CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM



DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-83	REV 3
MAT'L REPT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	
SCALE 1:12	DATE 10/27/2015
SHEET 46 OF 53	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



TO 3 WAY BALL VALVE

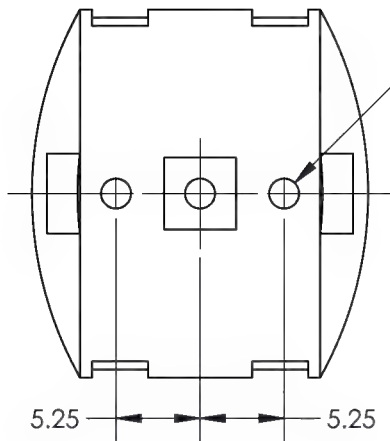
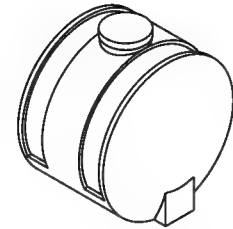
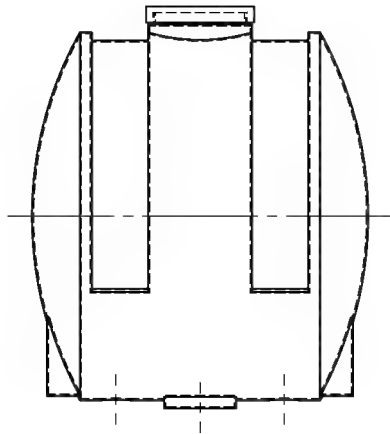
-85

RINSE TANK ASSEMBLY

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-85	REV 3
MAT'L REAT TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
SCALE	1:12
DATE	10/26/2015
SHEET 47 OF 53	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



3X Ø1.88
THRU ONE WALL

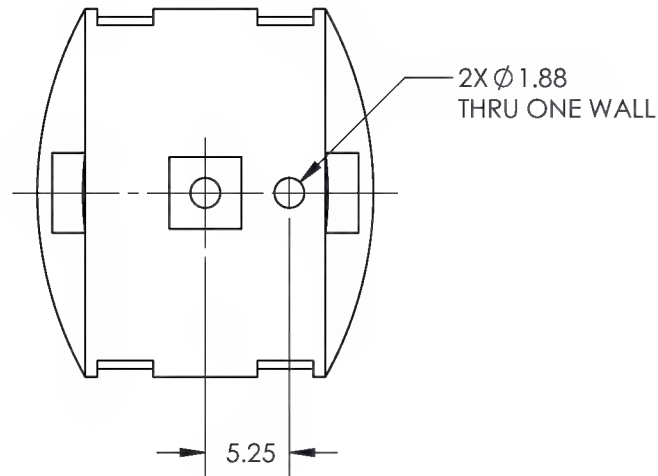
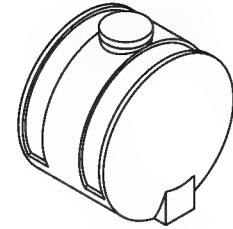
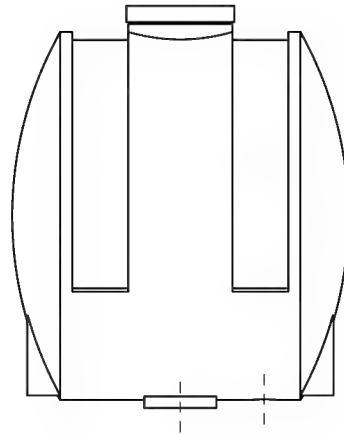
(-87)

30 GALLON TANK

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-87	REV 3
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED
REAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
SPEC	1. BREAK ALL SHARP EDGES
DRAWN BY: DUERFELDT	.015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY
OPPS APPR: ANDERSON	AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER
APPROVED: MACKOVJAK	ASME Y14.5M-2009
SCALE 1:12	DATE 10/26/2015
	SHEET 48 OF 53

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



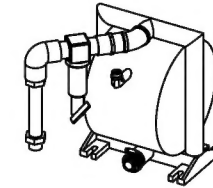
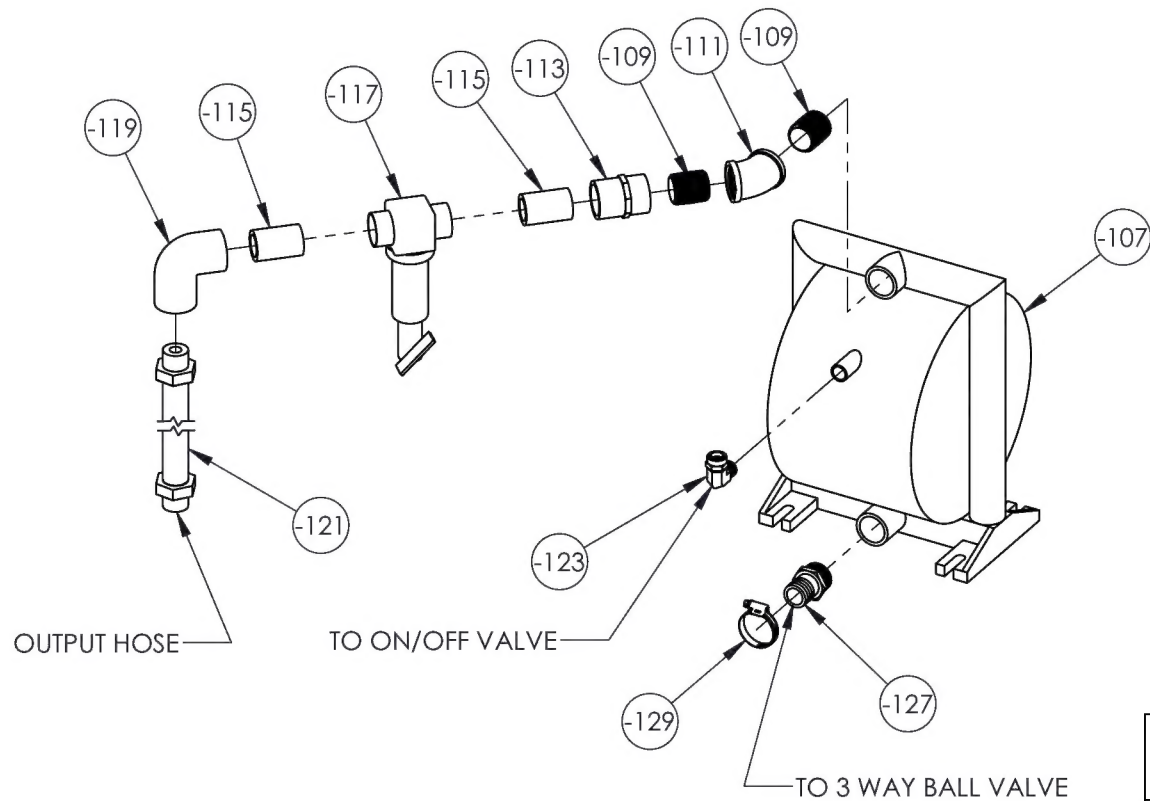
-89

30 GALLON TANK

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-89	REV 3
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED
REAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
SPEC	1. BREAK ALL SHARP EDGES
DRAWN BY: DUERFELDT	.015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY
OPPS APPR: ANDERSON	AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER
APPROVED: MACKOVJAK	ASME Y14.5M-2009
SCALE 1:12	DATE 10/26/2015
	SHEET 49 OF 53

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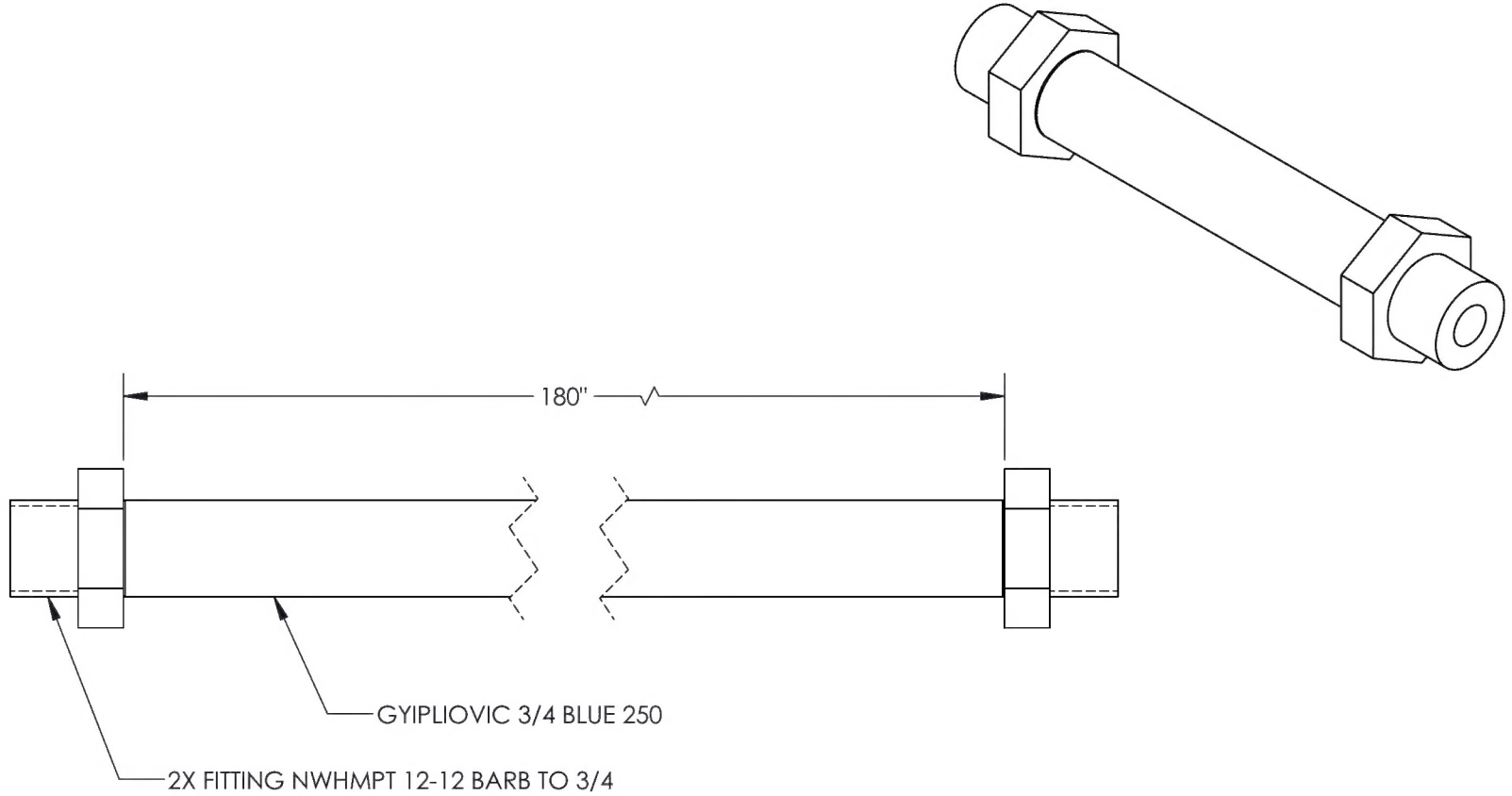
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-105 REMOVED -125.	9/8/2016	DPD	SM



DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-105	REV 3
MAT'L REAT TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:8	DATE 10/26/2015
SHEET 50 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-121 ADDED DRAWING.	9/8/2016	DPD	SM

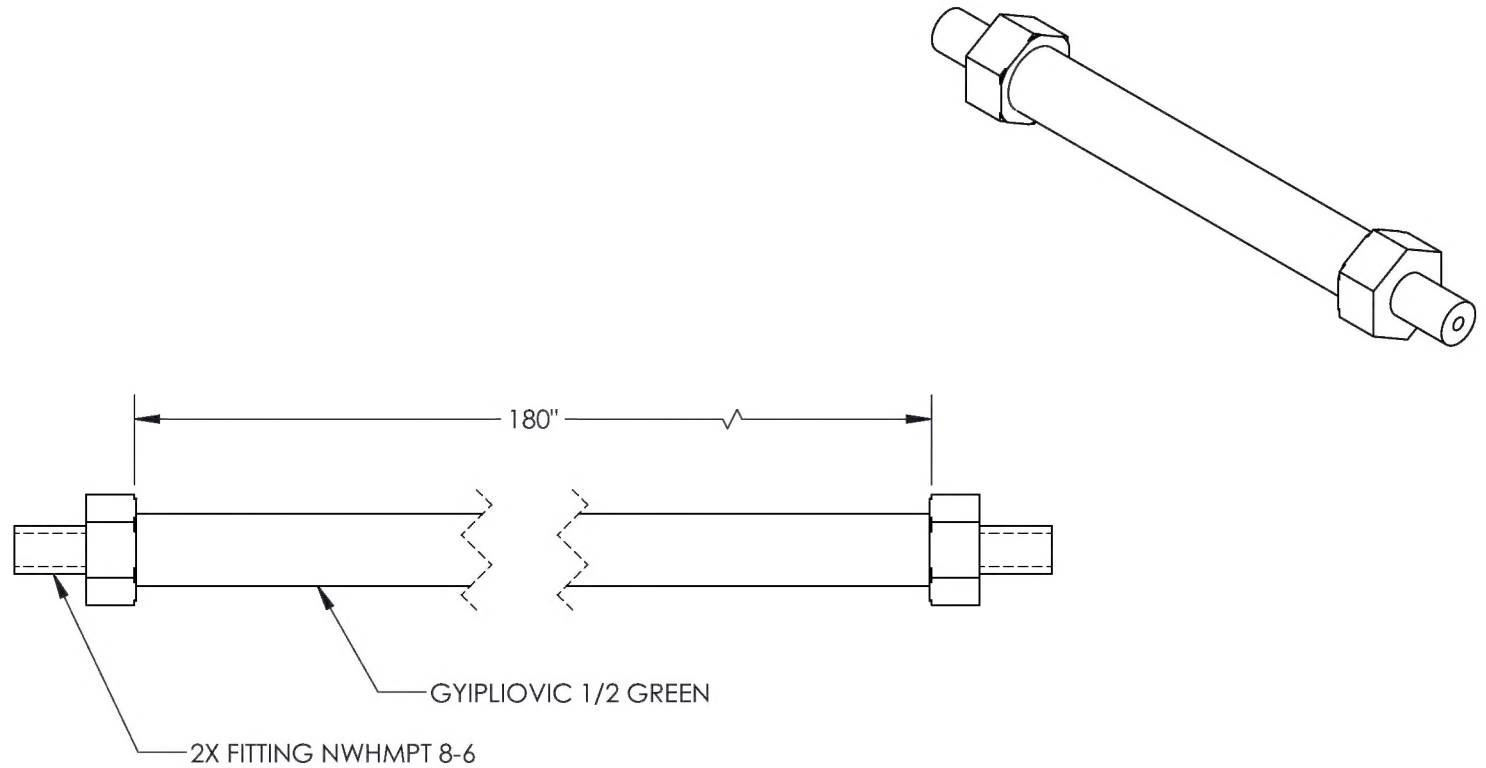


(-121)
BLUE HOSE

DART AEROSPACE	
TITLE 2000 WASH TRAILER	
DWG NO. HT-2000-121	REV 3
MAT'L PVC	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED:	.015 x 45° OR .015R
OPPS APPR:	2. DIMENSIONAL LIMITS APPLY
QA APPR:	AFTER PLATING
APPROVED:	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 10/30/2014
	USED ON MODEL
	SHEET 51 OF 53

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-191 ADDED DRAWING.	9/8/2016	DPD	SM



(-191)
GREEN HOSE

DART AEROSPACE	
TITLE 2000 WASH TRAILER	
DWG NO. HT-2000-191	REV 3
MAT'L PVC	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125°
CHECKED:	1. BREAK ALL SHARP EDGES
OPPS APPR:	.015 x 45° OR .015R
QA APPR:	2. DIMENSIONAL LIMITS APPLY
APPROVED:	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 10/30/2014	USED ON MODEL
SHEET 52 OF 53	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	16-0144	-203 CH'D TOLERANCES WAS .005 IS .010, WAS .01 IS .03.	9/8/2016	DPD	SM

BLACK LETTERS

USE LIFTING EYE ONLY WHEN UNIT IS EMPTY

12.8

.50

(-203)

DECAL

DART AEROSPACE	
TITLE 3000 WASH SYSTEM	
DWG NO. HT-3000-CW-203	REV 3
MAT'L VINYL	UNLESS OTHERWISE SPECIFIED
HEAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
SPEC	1. BREAK ALL SHARP EDGES
DRAWN BY: DUERFELDT	.015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY
OPPS APPR: ANDERSON	AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER
APPROVED: MACKOVJAK	ASME Y14.5M-2009
SCALE 1:2	DATE 10/23/2015
SHEET 53 OF 53	